## **EXHIBIT 28**

	PageiD. 237990
1	IN THE UNITED STATES DISTRICT COURT
2	FOR THE EASTERN DISTRICT OF NEW JERSEY
3	
4	
	IN RE: JOHNSON & JOHNSON
5	TALCUM POWDER PRODUCTS
	MARKETING, SALES PRACTICES,
6	AND PRODUCTS LIABILITY
	LITIGATION
7	Case No. 16-2738
	THIS DOCUMENT RELATES TO (FLW) (LHG)
8	ALL CASES
9	MDL Docket No. 2738
10 11 12 13	Wednesday, January 30, 2019
14	The video deposition of ROBERT COOK, Ph.D.,
15	taken pursuant to notice, was held at the
16	Hilton Garden Inn, 2555 Hilton Garden Drive,
17	Auburn, Alabama, commencing at approximately
18	8:56 a.m., on the above date, before Lois Anne
19	Robinson, Registered Diplomate Reporter,
20	Certified Realtime Reporter, and
21	Notary Public for the State of Alabama.
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5	Leigh.odell@beasleyallen.com JENNIFER K. EMMEL, ESQUIRE	5	By Ms. O'Dell 45.	5
6	Jennifer.emmel@beasleyallen.com	6	By Mr. Ferguson 4	95
7	WILENTZ, GOLDMAN & SPITZER, P.A.		•	
_	90 Woodbridge Center Drive	7	By Mr. Frost 505	
8	Suite 900, Box 10	8	* * * * *	
9	Woodbridge, New Jersey 07095-0958 BY: DANIEL R. LAPINSKI, ESQUIRE	9	EXHIBITS	
	Dlapinski@wilentz.com			l. Dl. D. 11
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15	DRINKER BIDDLE & REATH One Logan Square, Suite 2000	15	4 Invoices and checks paid to Dr. Cook	13
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Page 12 Page 10 <sup>1</sup> MR. FROST: <sup>1</sup> as Exhibits 1 and 2. And do you recognize these <sup>2</sup> are the reports that you drafted in this matter? Jack Frost, Drinker Biddle & Reath, on The cover pages are correct, and I <sup>3</sup> behalf of Johnson & Johnson. <sup>4</sup> assume that the contents are. <sup>4</sup> MS. McBETH: 5 **Q** Catherine McBeth. Drinker Biddle & Okay. And other than these two <sup>6</sup> Reath, on behalf of Johnson & Johnson. <sup>6</sup> reports, do you have any other reports, written <sup>7</sup> research, anything else that you've created for <sup>7</sup> MR. FERGUSON: 8 this matter that isn't reflected by those? Ken Ferguson, Gordon & Rees, for <sup>9</sup> Imerys. I have a few handwritten notes that I 10 MR. CARY: <sup>10</sup> brought in response to your request. 11 11 **Q** Okay. Could I see those? Andrew Cary, Gordon & Rees, for Imerys. 12 A (Witness complies.) <sup>12</sup> VIDEOGRAPHER: 13 The court reporter is Lois Robinson, 13 **Q** We'll mark them now, and I'll take a <sup>14</sup> who will now swear in the witness. 14 look at them during the break. THE COURT REPORTER: 15 A Yeah. 16 16 MR. FROST: We just had someone arrive. 17 Do you want to state your appearances? 17 Could you mark this as Exhibit 3, please. <sup>18</sup> MR. BILLINGS-KANG: 18 19 19 (DEPOSITION EXHIBIT NUMBER 3 Sure. 20 20 This is James Billings-Kang on behalf WAS MARKED FOR IDENTIFICATION.) of Personal Care Products Council. 21 MR. FROST: 22 **Q** ROBERT B. COOK, Ph.D., And then I also note counsel brought a 23 the witness, after having first been <sup>23</sup> collection of invoices today. I'll mark those as <sup>24</sup> duly sworn to tell the truth, the whole truth, 24 Exhibit 4. Page 11 Page 13 1 and nothing but the truth, was examined and (DEPOSITION EXHIBIT NUMBER 4 2 testified as follows: WAS MARKED FOR IDENTIFICATION.) **EXAMINATION** <sup>3</sup> MR. FROST: 4 BY MR. FROST: All right. So other than the two 4 O 5 Q All right. Good morning, Dr. Cook. <sup>5</sup> reports and your notes, is there anything else, Good morning. <sup>6</sup> any other writings that you have that reflects 6 A 7 O <sup>7</sup> any of the work you've done in this case? My name is Jack Frost, and I'll be 8 asking the majority of the questions today. Well, I brought a -- some photographs 9 A Okay. of my personal library, which -- which I used to 10 O Before we get started, have you ever <sup>10</sup> gather my -- my background information. 11 Q 11 been deposed before? Okav. 12 A Yes. 12 A And I brought photographs because I 13 **O** Okay. So you generally know how this 13 donated my library to a museum that maintains a 14 works. We've got to verbalize all our answers. 14 research library in Atlanta just a couple months 15 A Correct. <sup>15</sup> ago. 16 **O** Hand gestures, uh-huhs, huh-uhs don't 16 **Q** That's okay. work. And, other than that, we need to be 17 A If you'd like to see what I was using, <sup>18</sup> I brought pictures of it. careful not to speak over each other. 19 O 19 All right. Can I please mark these Yeah. 20 two? 20 MR. FROST: 21 (DEPOSITION EXHIBITS 1 AND 2 I think what we'll do, Leigh, is at the 22 WERE MARKED FOR IDENTIFICATION.) <sup>22</sup> end, we'll do like we did with -- for 23 MR. FROST: <sup>23</sup> Dr. Crocker. We'll somehow figure out a way to 24 **Q** I'm gonna hand you what's been marked <sup>24</sup> mark everything that's been brought and, you

Page 16 <sup>1</sup> know, we'll figure out during a break what the <sup>1</sup> sitting here today, you don't intend to offer any <sup>2</sup> best way to -- to do that is. So we'll -- for <sup>2</sup> additional opinions that aren't otherwise set 3 now we can refer to the stuff that's on the <sup>3</sup> forth in these reports? <sup>4</sup> table. 4 A That's correct. 5 **Q** It looks like you brought a collection <sup>5</sup> O And do you believe the reports to be <sup>6</sup> of documents, literature, and, as you said, the 6 accurate and complete? <sup>7</sup> picture of your library. When you say "the reports," you mean <sup>7</sup> A Yes. And a publication on amphiboles, 8 A 8 these two reports? <sup>9</sup> if there were any questions about amphiboles. 9 **Q** Yes. <sup>10</sup> A 10 **O** Okav. Yes. 11 A Just a good summary document. 11 **O** Yes. These, Exhibit 1 and Exhibit 2. 12 **O** <sup>12</sup> A All right. And is that, the book on Yes. <sup>13</sup> amphiboles, is that in the materials relied upon? 13 O And is it fair to summarize the Well, I relied on it. I don't remember <sup>14</sup> opinions you're rendering in this case all relate <sup>15</sup> to geology, mineralogy, and sort of mining whether we listed it or not. It's --<sup>16</sup> practices? <sup>16</sup> MS. O'DELL: 17 <sup>17</sup> A I believe it to be. It's -- it goes beyond that in that I <sup>18</sup> MR. FROST: <sup>18</sup> am offering opinions related to sampling and <sup>19</sup> analytical techniques. 19 It is reflected? <sup>20</sup> **Q** Okay. I'd loop that under the mining. <sup>20</sup> MS. O'DELL: 21 A I believe it to be reflected. But we Yeah. <sup>22</sup> O 22 can go through --Other than the geology, mineralogy, 23 MR. FROST: <sup>23</sup> mining practices, and the sampling and <sup>24</sup> compositing techniques, is there anything else I was going to say, we can always Page 15 Page 17 <sup>1</sup> you intend to offer opinions on here today? <sup>1</sup> check ---2 A No. <sup>2</sup> MS. O'DELL: Yeah. 3 **Q** And, in fact, you don't intend to offer <sup>4</sup> any opinions on whether or not talc or talcum <sup>4</sup> MR. FROST: -- that during a break as well. <sup>5</sup> powder can cause ovarian cancer; correct? 6 **Q** 6 A All right. Excellent. No. No. 7 <sup>7</sup> O And same with mesothelioma. You don't So you understand that you've been <sup>8</sup> retained by plaintiffs to be an expert in this <sup>8</sup> intend to offer opinions that talc or talcum <sup>9</sup> talc MDL; is that correct? <sup>9</sup> powder can cause mesothelioma? 10 A 10 A Correct. No. 11 **O** And you understand that you're offering <sup>11</sup> MS. O'DELL: 12 some opinions in this case; right? Dr. Cook, if you'd just wait till Jack 13 A Correct. <sup>13</sup> finishes. 14 O All the opinions that you plan to offer 14 THE WITNESS: <sup>15</sup> in this case, are they all reflected in the two Uh-huh. <sup>16</sup> reports that we've marked as Exhibits 1 and 2? <sup>16</sup> MS. O'DELL: 17 A 17 Yes. Based on the reports as they Can you just --18 stand, yes. I did reserve the right to -- to 18 THE WITNESS: 19 supplement these reports if additional 19 Okay. <sup>20</sup> information is supplied. <sup>20</sup> MS. O'DELL: <sup>21</sup> **Q** Okay. Another couple of seconds. That will But, yes, my opinions are pretty much 22 A <sup>22</sup> be helpful. <sup>23</sup> everything that I -- I wanted to say. 23 MR. FROST:

24 O

All right. So is it fair to say that,

24 **O** 

Turning to Exhibit 2, this is captioned

Page 18 Page 20 <sup>1</sup> as an amended report -- is that correct? --<sup>1</sup> MS. O'DELL: <sup>2</sup> that -- the Exhibit 2, the second of the two Excuse me. And just to any questions <sup>3</sup> reports? <sup>3</sup> that would -- would require you to disclose 4 A <sup>4</sup> things that we've discussed, those would be Yes. 5 O Okay. And why did you issue an amended <sup>5</sup> things that are protected by the work product 6 report in this case? <sup>6</sup> privilege, and --Additional information came in, and in <sup>7</sup> THE WITNESS: 8 editing my own original first version, I found Right. <sup>9</sup> grammatical errors and that type of thing, which, MS. O'DELL: <sup>10</sup> being a retired professor, I can't abide. -- and I would ask you not to --11 **Q** Do you recall what additional THE WITNESS: 12 information came in that you reviewed? 12 Right. There were depositions by several 13 MS. O'DELL: 14 people. There was a McCarthy report related to -- testify to those. And I -- I'll be <sup>15</sup> beneficiation. There was information related -careful to object to --<sup>16</sup> additional information related to Italian talc. 16 THE WITNESS: 17 There was a stack of documents that I received 17 Correct. <sup>18</sup> primarily online in -- in a Dropbox. MS. O'DELL: The depositions by several people you -- a specific question. <sup>20</sup> received, do you recall what depositions those <sup>20</sup> MR. FROST: 21 were? 21 **O** And your counsel is correct. I'm 22 A Two of them were by people that were <sup>22</sup> allowed to know data, documents, things like 23 not really involved in this, but they -- they 23 that, and other things that they gave you or told <sup>24</sup> offered information related to the -- the <sup>24</sup> you that influenced your opinion in this case, Page 19 Page 21 <sup>1</sup> mineralogy of talc and related amphiboles. One <sup>1</sup> but not communications, necessarily, between the <sup>2</sup> was by Mickey Gunter. One was by a man named <sup>2</sup> two. <sup>3</sup> Sanchez, who was one of Gunter's students. There 3 A I understand. 4 was a deposition by a man named Glassley, who The -- the flow of documents has been <sup>5</sup> once worked in Vermont. Those were the three <sup>5</sup> sort of a continual thing. It -- it's not that, 6 "Okay" --6 that I remember. 7 **Q** I -- I finished writing my -- my report Do you recall the dates on those 8 depositions? 9 A No. -- "we've got another big pile of 10 documents we want you to see." 10 O Do you recall if those depositions were 11 taken after you had drafted your initial report? They would enter material into my 12 A I think that they were all before. Dropbox routinely, I mean, maybe a couple times a 13 O They were all before? 13 week. Because, apparently, material was being 14 A 14 supplied all along by Johnson & Johnson or Imerys Uh-huh. 15 **Q** 15 or someone. And as they would scan or screen the And those had not been made available 16 to you prior to your first report? <sup>16</sup> material, if it was -- if they were things that 17 A would relate to what I was looking at, then they No. 18 **O** 18 would enter them into my Dropbox and alert me. And I take it plaintiffs' counsel <sup>19</sup> provided those depositions to you? But there was no -- no instructions in 20 A Yes. 20 -- in terms of what I should be looking at or for 21 **Q** Did plaintiffs' counsel advise you as or anything like that. It was just, "Here's more 22 to why they were providing those depositions to 22 information." 23 **O** All right. When did plaintiffs --23 you?

24

24 A

No.

And I take it, by "they," you're

-31 Filed 08/22/24 Page 8 of 130 Page 22 Page 24 <sup>1</sup> referring to plaintiffs' counsel? 1 Q Did they mark the pages of interest for 2 A <sup>2</sup> you to look at before you wrote your report? Correct. 3 A When did plaintiffs' counsel start No. No. 3 **O** 4 Q <sup>4</sup> sending you documents for your review in this Okay. This was all done in preparation 5 case? <sup>5</sup> for the deposition --6 A Ms. O'Dell contacted me, I think, in 6 A Oh, yes. 7 **Q** <sup>7</sup> April of 2017, and she supplied me -- you know, -- today? 8 after discussing the -- the -- what she would 8 A Just within the last day or so. 9 like for me to do, I agreed, and she began to 9 **O** Okay. I'll rephrase my question. 10 <sup>10</sup> give me background information, including, you So, in sending you documents, at any 11 know, the documents that you see here, I think 11 time that you were being sent documents that you 12 were gonna rely on for your report, did they ever <sup>12</sup> still in late April of 2017. 13 **O** And plaintiffs' counsel continued to 13 send documents that were already tabbed or 14 supply you documents through --14 highlighted or had any annotations on them? Highlighted, some of these look like 15 A Still going on. 16 O Still -- they're still --16 they had been highlighted years ago, because they 17 A were xeroxed copies and you could see where there Sure. 18 was a -- a different shade of gray. 18 **Q** -- continuing to supply you documents 19 O 19 now? Uh-huh. 20 A 20 A And, so, yes, there were documents like Sure. 21 **O** And it sounds like you have a -- a 21 that. And occasionally I would get something <sup>22</sup> Dropbox that they're loading documents into? 22 that would have a yellow -- yellow highlighter on 23 A 23 it, and it may or may not have related to what I Yes. 24 O <sup>24</sup> was, you know, supposed to be looking at. Is that the only way that they're Page 23 Page 25 <sup>1</sup> sending you documents? Okay. Did you use these highlights and 1 O <sup>2</sup> things of that nature to help influence what you 2 A No. No. Sometimes they'll print them <sup>3</sup> out for me. These were printed out in -- in <sup>3</sup> were looking at or writing in your report? <sup>4</sup> Montgomery. I didn't print them out on my HP No. But -- but I couldn't help but <sup>5</sup> bottom-of-the-line printer. <sup>5</sup> wonder why they were highlighted, so I, of 6 O And looking over at the binders that <sup>6</sup> course, looked at them. And some of them were <sup>7</sup> are on the table, I note that there are tabs and <sup>7</sup> of -- of value, and some weren't. 8 sort of stickies and things like that --I mean, you'll -- I mean, even though 9 A this looks like a lot of material, this isn't --Sure.

10 O -- throughout them. Are those things

11 that you put in, or did they come that way from

<sup>12</sup> plaintiffs' counsel?

13 A No. It's -- it's -- it's a little

<sup>14</sup> of -- of both. These are the actual documents

15 that I referred to in my report. And some of

16 them are long --

17 **Q** Uh-huh.

18 A -- and there may be only one page that

19 I'm actually referencing. And, so, I've gone

20 through, with their help, and marked that page so

21 that if you ask me about a document, I -- we

<sup>22</sup> don't spend two hours as I kind of try to figure

23 out which page out of a hundred pages we need to

<sup>24</sup> find a quote on.

<sup>10</sup> it's not half of what they sent. And I -- I have

11 looked at every page. I won't -- won't say I've

read every page, but I've certainly looked at

<sup>13</sup> every page that they sent.

14 I mean, you know, you can't go through

the IARC stuff without falling asleep repeatedly.

<sup>16</sup> So, you know, you just can't read all that. But

you can look at it, looking for, you know, key

<sup>18</sup> words and things like that.

Okay. Regarding the Imerys and

<sup>20</sup> Johnson & Johnson documents that you've been

<sup>21</sup> provided in this case, I take it everything you

<sup>22</sup> have has been provided to you by plaintiffs'

23 counsel?

24 A Other -- other than the material in my

Page 26 1 own library, which --<sup>1</sup> already had copies of. Some they gave me a copy 2 **O** <sup>2</sup> of and I already had it. Uh-huh. -- which, you know, some of it's 3 **Q** Uh-huh. <sup>4</sup> been -- been referenced in my report. And 4 A So there's sort of a -- of an overlap <sup>5</sup> there's a lot of other stuff that, you know, <sup>5</sup> there. 6 there would be no need to reference but yet it Okay. Was there anything that they 6 **Q** <sup>7</sup> supplied you that you'd never seen before that <sup>7</sup> deals with talc. 8 influenced or changed your opinions in this case? 8 O Did plaintiffs' counsel provide you any <sup>9</sup> of the published literature you relied on in your MS. O'DELL: 10 <sup>10</sup> reports? Object to the form. 11 A They've supplied me with the IARC 11 Do you mean like in --12 stuff, if you want to consider that published, MR. FROST: 13 which I do. But in terms of copies of certain I'm talking about literature. <sup>14</sup> published papers that were in journals, yes, they 14 MS. O'DELL: <sup>15</sup> supplied me with some full copies of things that Okay. Was it --16 <sup>16</sup> I only had abstracts of. I'm sorry. 17 MR. FROST: And -- and, in fact, there was one that Yeah, I was going to say --18 I couldn't -- I had a -- I had a really good 19 reference to it, but I couldn't come up with it, MS. O'DELL: <sup>20</sup> and it's from a field trip guide book in Italy. 20 That was my objection. 21 And they supplied me with that. MR. FROST: 22 **O** 22 Did plaintiffs -- I guess, better way You're correct. My question wasn't <sup>23</sup> of asking this, did plaintiffs supply you with 23 clear. <sup>24</sup> any published literature other than the two IARC 24 O Focusing on literature, was there any Page 29 Page 27 <sup>1</sup> publications on their own, or was it all stuff 1 literature that plaintiffs' counsel forwarded you <sup>2</sup> that you had requested if they could get copies <sup>2</sup> that influenced -- influenced or changed the <sup>3</sup> of for you? <sup>3</sup> opinions that you were gonna render in this case? 4 MS. O'DELL: 4 A No. I -- I'm sure that if we went back <sup>5</sup> through everything I had, there would be copies Object to the form. 6 of publications. There were some Bureau of Mines No. And there -- there's -- there's a <sup>7</sup> publications. There was a USGS publication. <sup>7</sup> reason for that. I didn't have a lot of 8 Um --8 opinions. I hadn't thought about the -- the 9 O And I don't mean to cut you off, but talc-ovarian cancer issue at all until Ms. O'Dell were these publications that you asked to see or called me. So I had -- I had very few opinions. <sup>11</sup> were these publications that plaintiffs' counsel 11 I was familiar with the geology, and I 12 sent you and told you -know a lot about mining, and, so, you know, my --13 A It was a --13 my fundamental knowledge and ideas in those two <sup>14</sup> areas were already pretty well established. 14 O -- to look at? 15 A It was a little bit of both. And, so, from the standpoint of -- of 16 **Q** 16 those, the mineralogy, there was nothing that --Little bit --17 A I mean, there's some errors in the mineralogy If you --18 O -- of both? that, you know, that's floating around right now. 19 A If you look -- if you look at the back But that was information I knew already. <sup>20</sup> of my report, there's an enormous long listing 20 The -- a couple of the papers that I --21 of -- of materials that I -- I relied on. And 21 I found in dealing with the Italian talc deposits 22 this is -- this is pretty much the list of things <sup>22</sup> enhanced what I knew. They were -- they were

<sup>23</sup> interesting.

24 MR. FROST:

23 that -- that -- that I -- I have looked at. Some

<sup>24</sup> of those were supplied by Beasley Allen. Some I

Page 32 1 O Okay. If -- if we were to go through <sup>1</sup> geology of the -- the relevant talc deposits. Do you recall what you asked for? <sup>2</sup> the -- the reference list at the back of your 2 **Q** <sup>3</sup> report, would you be able to tell me what was 3 A Well, just happen to have written it <sup>4</sup> supplied to you by plaintiffs that you didn't 4 down. <sup>5</sup> already have? 5 Yeah. There you go. That's a fairly comprehensive list of 6 A Hmm. <sup>7</sup> what I asked for. <sup>7</sup> MS. O'DELL: 8 Are you limiting that to the MR. FROST: literature? Mark this as Exhibit 5. I think we're 10 MR. FROST: on 5; right? 11 11 THE COURT REPORTER: I gotcha. Yeah, to the literature. 12 Yes, uh-huh. 13 THE WITNESS: 13 MR. FROST: 14 Did we put all the IARC stuff in -- in 14 Thank you. <sup>15</sup> literature? 15 (DEPOSITION EXHIBIT NUMBER 5 16 I mean, some of it has Bates numbers. 16 WAS MARKED FOR IDENTIFICATION.) <sup>17</sup> And if it was a Bates number, then they obviously MR. FROST: supplied it to me. Doesn't mean I didn't already 18 **Q** Okay. I'll hand this back to you. 19 have a copy of it. 19 A Okav. 20 If it was a -- if it was a company 20 **O** So you believe that's a fairly <sup>21</sup> document of some sort, obviously, I never had a 21 comprehensive list of all the documents you asked <sup>22</sup> for from plaintiffs' counsel? 22 copy of it. 23 23 A But there -- I could sit down and maybe It probably isn't, because this has 24 go through the list with you and show you which <sup>24</sup> been going on -- we're pushing two years now. Page 31 Page 33 <sup>1</sup> things that -- that they may have given me, but <sup>1</sup> And I'm sure there were instances when -- when we <sup>2</sup> it's not gonna be -- isn't anything consequential <sup>2</sup> were talking on the phone and I'd say, "Do we --<sup>3</sup> do we have anything related to froth flotation <sup>3</sup> relative to the materials I already had. 4 that was used at West Windsor?" I mean, I might 4 MR. FROST: Okay. I'm gonna ask maybe we'll do <sup>5</sup> have -- I might have, you know, couched a 6 that during a break or something --<sup>6</sup> question like that. <sup>7</sup> THE WITNESS: So I would say that, in all fairness, I probably did ask for other things. 8 Yeah. MR. FROST: 0 Sitting here today, you couldn't come 9 -- if we can highlight on the Exhibit 10 up with a -- a list --2, you know, what he believes was supplied by 11 A No. 12 **Q** 12 plaintiffs' counsel. That might be helpful. -- of what those other things may be? 13 A It's -- it's mainly documents related 13 A 14 to governmental agencies, that type of thing, Do they all generally relate to the 15 that I would not have had in my -- my library up 15 categories that are, you know, in there, which <sup>16</sup> appear to be kind of the geology, mineralogy of 16 until this point. 17 MR. FROST: 17 the three districts --18 O Okay. Turning to the company 18 A Yes. 19 documents, did you make a particular request for 19 O -- and then the mining practices of the 20 documents or the type of documents that you would 20 two companies? 21 want to see, or did plaintiffs' counsel just 21 A Yes. <sup>22</sup> provide you documents? 22 **O** And did you ever ask for any documents 23 A 23 that you weren't provided? No. I did. I made a request for a 24 long list of things related to the mining and 24 A I don't think so.

- 1 O Did you ever ask to conduct your own <sup>2</sup> searches of all of the documents provided by the
- <sup>3</sup> two corporate defendants in this case?
- I'm -- I'm not sure I understand what
- <sup>5</sup> you're asking.
- Sure. Did you ever ask for access to 6 **Q**
- <sup>7</sup> all of the documents that have been produced in
- 8 this case by --
- 9 A No.
- 10 O -- either Johnson & Johnson or Imerys?
- 11 A
- 12 **Q** Did you ever ask to be able to run any
- 13 searches yourself against a database, say, of all
- <sup>14</sup> of those documents?
- 15 A No.
- 16 O So you've relied on the set of
- <sup>17</sup> documents as put together by plaintiffs'
- 18 counsel --
- 19 A Yes.
- -- for your opinions? 20 **Q**
- <sup>21</sup> MS. O'DELL:
- Object -- object to the form.
- 23 MR. FROST:
- 24 O And you have no way of knowing --

- 1 A I was told that -- that, relative to
- <sup>2</sup> this material here, that what I've got is what --

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- <sup>3</sup> is what they received after their request.
- <sup>4</sup> MR. FROST:
- 5 **O** All right. And you have no way of
- <sup>6</sup> verifying whether or not what they sent you was
- <sup>7</sup> just a collection of documents that they had
- 8 culled through that --
- 9 MS. O'DELL:
  - Object --
- <sup>11</sup> MR. FROST:
- -- justifies their opinions and their
- 13 positions in this case?
- 14 MS. O'DELL:
- 15 Object to the form.
- 16 A I would have -- I don't know how
- anybody would know the answer to that. I mean,
- <sup>18</sup> no.

10

- 19 MR. FROST:
- 20 **Q** Okay.
- I mean, I've not had access to every
- <sup>22</sup> document involved in this case, so I have no --
- 23 no idea.
- 24 **O** Okay. Do you think, as an expert

- <sup>1</sup> right? -- if you've received every document that
- <sup>2</sup> would be responsive to any of the requests you
- 3 made?
- 4 A Based on the Bates numbers, I would say
- 5 that -- that -- that there's -- that I've -- I've
- 6 looked at maybe a few percent of the documents
- <sup>7</sup> that are somehow entered into this. And, so, I
- 8 can't say that -- that Imerys 436182 wouldn't
- <sup>9</sup> have something relevant.
- 10 O Uh-huh.
- 11 A But I may not have seen it. It may not
- 12 have been screened by the -- by the lawyers and
- 13 deemed something that they should send to me.
- 14 Q Okay.
- 15 A So I don't really know.
- 16 **Q** I was gonna say, that -- that's sort of
- what I'm getting at. What I'm getting at is
- 18 you -- you have no way of knowing one way or the
- 19 other whether or not what you were provided in
- <sup>20</sup> response to your request for documents is a
- 21 complete set of all documents on those topics;
- 22 correct?
- 23 MS. O'DELL:
- 24 Object to the form.

- <sup>1</sup> giving opinions regarding some of the mining and
- <sup>2</sup> sampling practices -- for example, of Imerys and
- <sup>3</sup> Johnson & Johnson -- that it would be important
- 4 to have a complete set of all data and
- <sup>5</sup> information before rendering those opinions?
- 6 MS. O'DELL:
- Object to the form.
- My opinions are based on the material
- that was supplied to us after we asked.
- 10 MR. FROST:
- Okay. So if there were additional
- 12 materials, you know, that either contradict or
- <sup>13</sup> are different than some of the materials you've
- 14 seen, would you look at and view those with an
- 15 open mind?
- 16 A Absolutely. I mean, that's the way I
- started this, and that's the way we're gonna end
- <sup>18</sup> it.
- And, again, if there were documents
- 20 that potentially refuted some of your opinions,
- 21 yeah, you would look at those and be willing to
- <sup>22</sup> either adjust or change your opinions based on
- <sup>23</sup> those documents?
- 24 A Well, I -- I looked at this as a -- as

<sup>1</sup> an exercise in the application of the scientific <sup>2</sup> method. And, so, that -- that requires you to

- <sup>3</sup> continue to test what you have opinion on. But
- <sup>4</sup> it looks like, based on everything that I've --
- <sup>5</sup> I've been given, that -- that there's pretty --
- <sup>6</sup> pretty solid support for the opinions I've made
- <sup>7</sup> so far. But -- but I would be more than willing
- <sup>8</sup> to look at additional data, for sure.
- And, for example, you know, you note
- with respect to, say, sampling and testing that
- <sup>11</sup> there appears to be hundreds, if not thousands,
- <sup>12</sup> of tests that are missing from the documents
- 13 you've looked at. Is that correct?
- 14 MS. O'DELL:
- 15 Object to the form.
- 16 A That -- that would be my -- that --
- <sup>17</sup> that could be an opinion, yes. It -- because
- <sup>18</sup> there's description of samples that are taken
- <sup>19</sup> here, there, and everywhere and in certain time
- <sup>20</sup> periods, and then -- but you look for the results

So you agree with me it looks like,

I would say that -- that it may be that

But you can't tell me one way or the

<sup>2</sup> you know, you don't have the complete set of

<sup>7</sup> I have everything that's available. It may be

12 other, without speculating, as to whether or not

<sup>13</sup> any of those additional testing samples, testing

<sup>15</sup> documents produced by the two companies in this

<sup>16</sup> case and just weren't provided to you by counsel;

20 couple of the depositions. I also note in your

<sup>22</sup> deposition of Mr. -- or Dr. Downey in your

<sup>23</sup> report. Other than what you've disclosed in --

<sup>24</sup> in the report and the three you've talked about

<sup>21</sup> report I think you -- you referenced the

Okay. Now, you had talked about a

<sup>14</sup> documents, records, et cetera, exist in the

I have no idea.

<sup>8</sup> that a lot of these results don't exist in

- <sup>21</sup> of the analyses, and they aren't there.
- 22 MR. FROST:
- 23 **Q** Okay.

4 MS. O'DELL:

10 MR. FROST:

<sup>17</sup> correct?

18 A

19 O

5

6 A

24 A So, yeah, I'm sure.

<sup>3</sup> testing data, for example?

<sup>9</sup> anybody's files anymore.

Object to the form.

<sup>1</sup> today, have you reviewed any other depositions to

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- <sup>2</sup> prepare for this case?
- <sup>3</sup> MS. O'DELL:
- Object to the form. I don't think he's
- <sup>5</sup> mentioned a Dr. -- there's not -- I'm not aware
- 6 of a Downey --
- <sup>7</sup> MR. FROST:
- Oh, is he not a doctor?
- MS. O'DELL:
- -- witness in this case.
- 11 MR. FROST:
- Oh, okay.
- 13 MS. O'DELL:
- 14 I don't think -- he's a doctor, but I
- don't think he mentioned him.
- MR. FROST:
- 17 Okay.
- MS. O'DELL:
- So you might ask an open-ended
- 20 question.
- 21 Or, if you understand it, please --
- 22 A I -- I understand what you're asking.
- 23 MR. FROST:
- 24 **O** Sure.

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- Page 41 There's a list of depositions that I --
  - <sup>2</sup> I have looked at that's in this list of materials
  - <sup>3</sup> considered.
  - And there's Hopkins. It's footnoted in
  - my report.
  - Julie Pier, I've looked at hers.
  - I've looked at Alice Blount's.
  - There's one that I looked at a long
  - time ago. I can't -- can't even remember the
  - person's name, and it -- it had little relevance
  - to what we're doing.
  - Hopkins, Downey, Blount, Glassley,
  - <sup>13</sup> which I mentioned.
  - There may -- I think there's at least
  - one more that's -- that's actually in my list of
  - <sup>16</sup> materials considered.
  - <sup>17</sup> Q Okay. But it would be -- it would --
  - <sup>18</sup> it would be listed in the materials considered?
  - 19 A
  - <sup>20</sup> **O** It's just the three, the Gunter,
  - <sup>21</sup> Sanchez and Gassley, that --
  - 22 A Glassley.
  - 23 **O** -- weren't listed?
  - 24 Glassley?

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- To 4	807, Ph.D.
Page 4	
<sup>1</sup> MS. O'DELL:	And you've reviewed these while they
I think Glassley was listed.	were in draft form?
<sup>3</sup> MR. FROST:	<sup>3</sup> MS. O'DELL:
4 Oh, was he?	4 Object to the form.
<sup>5</sup> MS. O'DELL:	<sup>5</sup> A I don't know whether they were draft
<sup>6</sup> Yeah.	<sup>6</sup> form or not. They were they were in good
<sup>7</sup> MR. FROST:	<sup>7</sup> shape in terms of grammar and punctuation. I
<sup>8</sup> Q Have you reviewed any of the	8 would have I would have certainly thought they
<sup>9</sup> depositions of the other experts in this talc	<sup>9</sup> were close to final.
<sup>10</sup> MDL?	10 MR. FROST:
<sup>11</sup> A I don't know.	<sup>11</sup> Q Did you review these prior to
Oh, the depositions?	12 finalizing your initial report?
13 Q Yes.	13 A No.
<sup>14</sup> A I'm not sure about who was	14 Q Have you reviewed these after the
When you say the MDL	15 initial report?
<sup>16</sup> Q In this particular case.	16 A Yes.
17 A Oh.	<sup>17</sup> Q Did you review these before the
Any of the other experts from	18 issuing the second report?
<sup>19</sup> plaintiffs' counsel in this case?	19 A Yes.
<sup>20</sup> A I think we've got them listed.	20 Q The amended?
Ti timik we ve got them instea.	21 In reviewing the the Smith,
	in reviewing the times,
I'm ask uns a uniterent way. We've	22 Zelikoff, Campion, and Krekeler reports, did that
occir taking depositions of various planting	
<sup>24</sup> experts for the past about month.	the analysis you did in the amended report?
Page 4	Page 45
<sup>1</sup> A Uh-huh.	<sup>1</sup> A It did not. I I was a little bit
<sup>2</sup> Q Have you seen or read any of those	<sup>2</sup> intrigued with the Campion, the Campion report.
<sup>3</sup> transcripts?	<sup>3</sup> It made me think that that was a field of
4 A No.	<sup>4</sup> potential research. I didn't realize that
<sup>5</sup> Q Okay. And you're aware that plaintiffs	5 that the Raman approach could be as useful as it
6 served other expert reports, like yours, in in	6 might be.
7 November?	<sup>7</sup> Q Was this more a, you know, sort of
	was this more a, you know, sort or
8 A Yes.	
	<sup>8</sup> piqued your interest or personal curiosity
<sup>9</sup> Q And then some in January?	<ul> <li>8 piqued your interest or personal curiosity</li> <li>9 A Yeah. Right.</li> </ul>
<ul><li>Q And then some in January?</li><li>A Yes.</li></ul>	<ul> <li>8 piqued your interest or personal curiosity</li> <li>9 A Yeah. Right.</li> <li>10 Q as opposed to the opinions you're</li> </ul>
<ul> <li>Q And then some in January?</li> <li>A Yes.</li> <li>Q Have you reviewed any of those reports?</li> </ul>	<ul> <li>8 piqued your interest or personal curiosity</li> <li>9 A Yeah. Right.</li> <li>10 Q as opposed to the opinions you're</li> <li>11 rendering in this case?</li> </ul>
<ul> <li>Q And then some in January?</li> <li>A Yes.</li> <li>Q Have you reviewed any of those reports?</li> <li>A I looked at a a draft of Krekeler</li> </ul>	<ul> <li>8 piqued your interest or personal curiosity</li> <li>9 A Yeah. Right.</li> <li>10 Q as opposed to the opinions you're</li> <li>11 rendering in this case?</li> <li>12 A Yes.</li> </ul>
<ul> <li>9 Q And then some in January?</li> <li>10 A Yes.</li> <li>11 Q Have you reviewed any of those reports?</li> <li>12 A I looked at a a draft of Krekeler</li> <li>13 and Campion. I'm assum I don't know whether</li> </ul>	<ul> <li>8 piqued your interest or personal curiosity</li> <li>9 A Yeah. Right.</li> <li>10 Q as opposed to the opinions you're</li> <li>11 rendering in this case?</li> <li>12 A Yes.</li> <li>13 Q I take it you've done work with Raman's</li> </ul>
<ul> <li>Q And then some in January?</li> <li>A Yes.</li> <li>Q Have you reviewed any of those reports?</li> <li>A I looked at a a draft of Krekeler</li> <li>and Campion. I'm assum I don't know whether</li> <li>he's been deposed or not. And there were</li> </ul>	<ul> <li>8 piqued your interest or personal curiosity</li> <li>9 A Yeah. Right.</li> <li>10 Q as opposed to the opinions you're</li> <li>11 rendering in this case?</li> <li>12 A Yes.</li> <li>13 Q I take it you've done work with Raman's</li> <li>14 spectrograph?</li> </ul>
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Philed 08/22/24 Page 14 of 130 Page 48 <sup>1</sup> A There were two drafts that I looked at. because I work closely with a man named <sup>2</sup> John Rakovan, who is probably his boss. He's <sup>2</sup> I looked at an early one and a final one. The --<sup>3</sup> a -- John is also a professor at Miami of Ohio. <sup>3</sup> the -- the parts that I thought were --4 MS. O'DELL: <sup>4</sup> And I had -- when they were considering Krekeler, <sup>5</sup> I -- you know, I checked -- checked with John Dr. Cook --<sup>6</sup> Rakovan about him, and he got a nice clean bill THE WITNESS: <sup>7</sup> of health. So I kind of knew who he was going Yes. <sup>8</sup> into this. MS. O'DELL: 9 **Q** Did you offer any written comments ---- To the degree that you're -- that <sup>10</sup> there were any discussions, those are not 10 A 11 something that I -- I would instruct you not to 11 Q -- to either of the two drafts? 12 A 12 testify to discussions --I don't think I did. 13 THE WITNESS: 13 **Q** Okay. Did you discuss any comments to 14 the drafts with plaintiffs' counsel? 14 I understand. I probably did. <sup>15</sup> MS. O'DELL: 15 A 16 **Q** Do you remember what areas of his 16 -- with plaintiffs' counsel. report those comments would have been about? 17 THE WITNESS: 18 Understand. They were -- I think that they weren't 19 I felt that they were in depth and --19 really about areas of his report. They were --<sup>20</sup> and that -- that what he had to say was -- was 20 they were more about he's gone into great detail <sup>21</sup> here. Probably it's, you know, irrelevant, he good in -- in a lot of areas. needs to shorten it, that type of thing. 22 MR. FROST: 23 I looked at his report as if I was 23 **O** Okay. Do you offer any comments to <sup>24</sup> looking at a student's report and what I would do <sup>24</sup> Dr. Krekeler's report? Page 47 Page 49 In -- like in writing? 1 to, you know, to make it easier to read, more 1 A <sup>2</sup> understandable. I mean, I thought that he --<sup>2</sup> MS. O'DELL: Same instruction. <sup>3</sup> that his first draft was -- was probably way more 4 than was needed. <sup>4</sup> THE WITNESS: Yeah. And other than grammatical things and 6 things that relate to length, did you have any 6 Not really. <sup>7</sup> substantive comments about the contents of his <sup>7</sup> MR. FROST: Okay. By "not really," does that mean 8 report? I liked -- I liked --<sup>9</sup> that, you know, none as far as writing and Α 10 content, or did you have some comments in the 10 MS. O'DELL: 11 report that you then conveyed? Dr. Cook, to the degree that those 12 A Well, I mean, if you're gonna read comments were discussions that you had with me --13 something, so -- you're gonna end up discussing 13 THE WITNESS:

14 it in some way. You know, if you don't, then <sup>15</sup> why -- why bother reading it if it's not gonna

<sup>16</sup> enter into the bigger picture? 17 But -- but, no. I mean, I wasn't -- I <sup>18</sup> wasn't asked to sit down and carefully critique <sup>19</sup> either one of those reports. And I certainly 20 think that he -- he pointed out some important <sup>21</sup> things that -- that -- that should be considered.

<sup>22</sup> O Do you know why you were asked to

<sup>23</sup> review drafts of Dr. Krekeler's report?

24 A No. But -- but I think that it may be

Right. 15 MS. O'DELL: -- or plaintiffs' counsel, they're not 16 entitled to ask you that question, and, so, I'm instructing you not to convey those comments. THE WITNESS: 20 Okay.

We disagree. And you can raise it, but

<sup>23</sup> we think, you know, any communications between

<sup>24</sup> experts, including whether they're filtered

21 MR. FROST:

22

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Philp 08/22/24 Page 15 of 130 Page 50 Page 52 <sup>1</sup> through counsel or not, are subject to 1 **Q** So there's no reason to flip through <sup>2</sup> disclosure. But we can deal with that at a later <sup>2</sup> Exhibit 1 at this point. Exhibit 2 --<sup>3</sup> time if you're instructing him not to answer. 3 **A** No. <sup>4</sup> THE WITNESS: 4 Q -- contains your opinions. 5 Okay. If you could turn to page 38 of Yeah. <sup>6</sup> your amended report at the very bottom. MS. O'DELL: Okay. Okay. Got it. And to the --8 8 O I take it this is the reference you're Excuse me. <sup>9</sup> talking about, the "normally expected failure or To the degree that there is a comment 10 rejection rates were not observed, as discussed 10 that you've made to me or -- or other plaintiffs' <sup>11</sup> counsel, then -- then that's something that I'm 11 in detail in the expert report of Krekeler 12 instructing you not to testify to. 12 (2018)? 13 A 13 THE WITNESS: That's correct. 14 Right. 14 O Okay. And I take it, other than this <sup>15</sup> MS. O'DELL: 15 reference, you know, you yourself have no <sup>16</sup> opinions about the -- whether or not failure 16 So if there's -- so --<sup>17</sup> THE WITNESS: rejection rates were correct? You're deferring 18 to Krekeler for that? You're not asking if I've had direct <sup>19</sup> contact with Krekeler, are you? 19 A I'm deferring to him. I have an <sup>20</sup> opinion, you know, but I don't -- I don't have <sup>20</sup> MR. FROST: <sup>21</sup> O 21 the strength of knowledge to support my opinion. Asking that next, but --<sup>22</sup> A 22 **Q** Well. I haven't. Okay. <sup>23</sup> **Q** 23 A Okay. But I defer to him because I believe he 24 A And -- and I personally think that <sup>24</sup> does. Page 51 Page 53 1 there was some -- some important things that he 1 O Yeah. So you haven't done any <sup>2</sup> pointed out. And whether or not I mentioned them <sup>2</sup> independent statistical analysis or anything like <sup>3</sup> to Miss O'Dell or not, I don't know. But I <sup>3</sup> that regarding rejection rates? <sup>4</sup> certainly, in reading his final draft, I thought 4 A No. <sup>5</sup> there were some interesting things in there. <sup>5</sup> O Do you believe there's anything in your <sup>6</sup> They weren't things that I had addressed myself, <sup>6</sup> report that you accidentally copied from a site <sup>7</sup> and I thought they were good. <sup>7</sup> that you didn't either put quotes around or put a 8 Q Is there anything in the Krekeler <sup>8</sup> proper citation to? <sup>9</sup> drafts that you included in your report because 9 A I hope not. I mean, there could be, 10 you had read through his? <sup>10</sup> but I would hope that there wouldn't be. 11 A I only mentioned and actually deferred If you turn to page 9 of your report. 12 to him the concept of sampling frequency, the --<sup>12</sup> Specifically, I'll direct your attention to 13 the expected failure rate of samples that --<sup>13</sup> Footnote 12.

- 14 He had references to all of that and <sup>15</sup> pointed out that that seemed to be something 16 that -- that was contrary to expectation. And, <sup>17</sup> so, I pointed that out. But I refer completely 18 to him.
- 19 O If you turn --20 Actually, this is a good point. I take 21 it by -- I take it your intention was that the <sup>22</sup> amended report in Exhibit 2 would take the place 23 of the original report in Exhibit 1? 24 A Yes.
- 14 A Okay. 15 O Do you know where you got this <sup>16</sup> information from? 17 A This was probably pulled out of perhaps AGI glossary or one of the -- one of the AIME <sup>19</sup> references. 20 **O** Are you familiar with the website of a <sup>21</sup> company called Rishabh Metals & Chemicals? 22 A No. 23 **O** I'll mark this as Exhibit 6. 24 I believe we're on 6; right?

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- <sup>1</sup> THE COURT REPORTER:
- 2 Yes, we are.
- 3 (DEPOSITION EXHIBIT NUMBER 6
- WAS MARKED FOR IDENTIFICATION.)
- <sup>5</sup> MR. FROST:
- I'd like to turn your attention to what 6 **Q**
- <sup>7</sup> is on the printout -- 1, 2, 3, 4, 5, 6 -- page 7.
- 8 A I'm not sure that I haven't seen this
- <sup>9</sup> on the Internet.
- 10 O If you look under "or beneficiation."
- 11 A Sure.
- 12 **Q** And do you agree with me that what's in
- 13 the report appears to be a quote --
- 14 A Sure.
- 15 O -- from this website?
- 16 A It'd be nice to know where they got
- <sup>17</sup> their definition. Seriously.
- 18 **Q** Okay. But do you believe that you saw
- 19 this website while you were drafting your report?
- 20 A You know, when you -- when you
- 21 mentioned the name, it didn't ring a bell. But I
- <sup>22</sup> believe I have seen this.
- 23 **Q** Okav.
- But I don't -- I don't know the 24 A

- <sup>1</sup> the things in the table I described -- you know,
- <sup>2</sup> every single reference I had described verbally.
- <sup>3</sup> And then when I saw the table that was being
- <sup>4</sup> prepared, I guess, in Hopkins, it was pretty
- <sup>5</sup> clear that, oh, my God, this is -- you know, I
- 6 need to do this with -- with every data set, go
- <sup>7</sup> ahead and make tables.
- And, so, Beasley Allen folks helped
- construct the -- I guess it was an Excel table.
- 10 O These are the tables that are --
- 11 A Yeah. But that's it. Everything else
- <sup>12</sup> is -- is --
- And if -- I'm just thinking about the
- <sup>14</sup> Zelikoff thing. I did get a -- I did get a
- <sup>15</sup> reference out of hers. But that's all I
- <sup>16</sup> remember.
- <sup>17</sup> O Okay. And by "the tables," you're
- 18 referring to the various tables that appear --
- you know, some start on page 13.
- 20 A The tables have replaced very long
- 21 paragraphs that describe each one of these -- for
- 22 the most part, each one. Some of them, the ones
- <sup>23</sup> from the Hicks -- not Hicks -- the Hopkins depo,
- <sup>24</sup> some of those I didn't have until I got his depo.
- Page 55

- <sup>1</sup> company.
- 2 **Q** All right. Mark this as Exhibit 7,
- <sup>3</sup> please.
- 4 (DEPOSITION EXHIBIT NUMBER 7
- WAS MARKED FOR IDENTIFICATION.)
- 6 MR. FROST:
- 7 **Q** Do you recognize this as the expert
- 8 report of Dr. Judith Zelikoff that you reviewed?
- 9 A I only have it online.
- 10 O Okay.
- 11 A But I'm assuming it is the same.
- 12 **Q** Okay. If you could please turn to page
- <sup>13</sup> 31 of your report.
- 14 A Of my --
- 15 I'm sorry. I'm going to hers.
- 16 **Q** And I guess I'll start here. Did
- <sup>17</sup> anybody help you write your report?
- 18 A No.
- 19 **Q** You wrote all of it yourself?
- Every word. There was help with --
- 21 with the tables. My report was table-less
- <sup>22</sup> initially.
- 23 **Q** Okay.
- 24 A And it was extremely cumbersome because

1 O Okay. Did you put together the tables

- <sup>2</sup> or was that something that Beasley Allen --
- 3 **A** No. They helped.
- 4 Q -- put together for you?
- 5 A They helped.
- And I take it, when they sent you the 6 O
- <sup>7</sup> tables, it sounds like there were additional
- <sup>8</sup> references in there that originally you didn't
- <sup>9</sup> have or didn't review?
- 10 A There -- there were not.
- 11 O Okay.
- 12 A I don't think that there were. The
- 13 ones that -- that were related to the Hopkins
- <sup>14</sup> exhibits, I had them, but I think I got them
- after I had prepared my first draft, something
- 16 like that. And so they are -- they were new, new
- <sup>17</sup> to the second edition.
- 18 O Were there any references when you
- 19 reviewed the tables that you hadn't seen prior to
- <sup>20</sup> the tables being generated by Beasley Allen?
- 21 A I don't think so. I didn't -- I -- I
- <sup>22</sup> didn't notice any. But there are like a
- <sup>23</sup> hundred-and-something references just in the
- <sup>24</sup> table that deals with asbestos.

Page 60 1 Q And, so, I compared the -- you know, 1 A I think so. 2 **Q** <sup>2</sup> the report in Exhibit 1 to the report in Exhibit -- report? <sup>3</sup> 2. It looks like a lot of the changes that were 3 Okay. So these weren't new lists that 4 made were within the tables. Does that sound <sup>4</sup> were sent to you by Beasley Allen? 5 correct? 5 A No. No. no. 6 A It -- there could have been, sure. And have you reviewed all of the 6 **Q** 7 Q <sup>7</sup> documents that are in each of the charts? What type of changes were made to 8 A 8 Table --I think I have. 9 9 **Q** Well, strike that. And I note that your charts are -- I'm 10 10 not gonna say exactly the same, because, Did -- were these changes that you made 11 or were these changes that were made by Beasley <sup>11</sup> actually, your amended ones change some of the 12 Allen? <sup>12</sup> language, but they're materially similar to those 13 A I went through the table in one and 13 showing up in the report of Dr. Krekeler. Have 14 you had a chance to review the charts in his 14 found a goodly number of things that I thought <sup>15</sup> were wrong, but they were -- some of them were 15 reports? <sup>16</sup> spellings that were related to probably 16 A I've seen a version. I don't know <sup>17</sup> spellchecker, like the word "Cyprus" for Cyprus <sup>17</sup> whether it was his latest version. And, yeah, 18 Corporation was misspelled a number of times. 18 he -- he had -- I mean, that was the whole idea. There were some incidences where I 19 We've got -- now we've got charts to replace long <sup>20</sup> questioned whether the right terminology was used paragraphs. And, so, they should be similar. <sup>21</sup> for mineralogy, for a mineralogical citation. 21 **O** Okay. And this was the work done by 22 Beasley Allen? And, you know, we keep going back In terms of --23 through these tables, and there's -- I think 23 A 24 there may be one sample in the asbestos that may 24 MS. O'DELL: Page 59 Page 61 <sup>1</sup> not actually be a cosmetic -- or in the talc that Object to the form. <sup>2</sup> may not be a cosmetic talc. <sup>2</sup> A Right. In terms of the compilation of 3 **Q** Okay. Do you -- do you recall which <sup>3</sup> the charts, I mean, I'm pretty sure a secretary 4 one that would be or --<sup>4</sup> did it. 5 A No. <sup>5</sup> MR. FROST: 6 O -- do you have the ability to identify? Okay. And then they sent it to you for <sup>7</sup> inclusion in the report? 7 8 A It was a -- it had a number. It was a 8 A Yes. <sup>9</sup> numerical sample number. MS. O'DELL: 10 **Q** And were these changes, then, that you 10 Object to the form. 11 made to the --<sup>11</sup> MR. FROST: 12 A <sup>12</sup> O I don't think --All right. So turning to page 31 of 13 **Q** 13 your report. -- charts that were prepared? I don't think -- they were intact, and 14 A 14 A Yes. <sup>15</sup> O See the paragraph at the top of 31, it <sup>15</sup> I didn't notice that until a day or two ago. 16 O Okay. The other changes that were made <sup>16</sup> says -- it's starts with the "According to J&J's <sup>17</sup> between the original report and the amended <sup>17</sup> corporate representative." 18 report, were these changes that you made in going 18 A Right. 19 through the original report and correcting the <sup>19</sup> **O** Do you know where you got this <sup>20</sup> spellings? <sup>20</sup> information from? 21 A Tried to, yes. <sup>21</sup> A Yes. 22 **Q** Okay. And are you the one who made all <sup>22</sup> MS. O'DELL: 23 of the changes to the reports that show up now in Which one are you --24 the amended --<sup>24</sup> MR. FROST:

Page 64 The top paragraph in 31, the "According 1 O -- or the one preceding it that we <sup>2</sup> to J&J's corporate representative." <sup>2</sup> talked about? 3 **A** I think that that's in a deposition. 3 **A** No. Can you turn to page 11 of 4 Q 4 Q I'm gonna show you one more on page 34 <sup>5</sup> Dr. Zelikoff's report? <sup>5</sup> of your report, please. Do you see the paragraph 6 that's above "Cobalt"? 6 A Okay. <sup>7</sup> Q Third paragraph down, starts "According 7 A Yes. 8 to Johnson & Johnson's corporate representative." 8 O Okay. And then the paragraph right Right. <sup>9</sup> above that, I think it's the second-to-last 9 A 10 O And I'll just let you review the two. <sup>10</sup> sentence, starts "Interestingly, there is 11 Do you agree with me that these two paragraphs 11 significant difference between." 12 are almost exactly the same? 12 A Okay. 13 MS. O'DELL: 13 MS. O'DELL: 14 Object to the form. I'm sorry. Where -- where are you, Well, I can tell you that I wrote mine 15 A <sup>15</sup> Jack? Excuse me. <sup>16</sup> before she wrote -- or before I ever saw hers. <sup>16</sup> MR. FROST: <sup>17</sup> MR. FROST: 17 It's page 34, so it's the full 18 **Q** Okay. 18 paragraph above "Cobalt" and then the last two 19 sentences in the paragraph above that. It 19 A So, you know, if they're similar, okay. <sup>20</sup> But, you know, I didn't receive hers until maybe <sup>20</sup> starts, "Interestingly, there is significant 21 difference." <sup>21</sup> a month ago. Okay. So you certainly would -- didn't 22 **Q** 22 MS. O'DELL: 23 read and rely on Dr. Zelikoff --23 Okay. 24 A No. 24 MR. FROST: Page 63 Page 65 Okay. And looking back again at pages -- in order to draft your -- your <sup>2</sup> portion of the report? <sup>2</sup> 11 and 12 of Dr. Zelikoff's report --3 A No. That's interesting, because this is <sup>4</sup> a -- something that was in my original report. If you can turn to page 32 of your <sup>5</sup> report, the second paragraph that says -- starts Okay. Yeah. I was gonna say, <sup>6</sup> "Talc mine in Vermont." <sup>6</sup> actually, I -- I will say all of this information <sup>7</sup> was in your original report. <sup>7</sup> A Okav. 8 **O** Yeah. I mean, I -- maybe she got ahold Okay. Again, if you can look at <sup>9</sup> Dr. Zelikoff's page 11. <sup>9</sup> of it. I don't know. 10 O <sup>10</sup> A Okay. Okav. 11 O And it's the fourth paragraph down. If 11 A But I certainly didn't take anything <sup>12</sup> you can read those two. <sup>12</sup> out of hers. Do you agree with me that they're 13 O All right. And you'd agree with me, if <sup>14</sup> almost exactly the same again? 14 you look at page 11 to 12 --<sup>15</sup> A <sup>15</sup> A Right. Yep. <sup>16</sup> MS. O'DELL: -- again, the same language --16 **O** <sup>17</sup> A Object to the form. Right. 18 **Q** -- shows up? <sup>18</sup> MR. FROST: And, again, you weren't relying on 19 MS. O'DELL: <sup>20</sup> Dr. Zelikoff to draft your report? Object to the form. <sup>21</sup> A <sup>21</sup> MR. FROST: No. And plaintiffs' counsel didn't provide <sup>22</sup> **Q** Okay. And --23 MS. O'DELL: <sup>23</sup> you this paragraph --24 24 A No. Excuse me. Just give me a minute --

Philip 08/22/24 Page 19 of 130 Page 68 <sup>1</sup> not a minute, actually -- a second to object if I <sup>1</sup> of -- of the Italian talc deposits. 2 **Q** <sup>2</sup> need to. Okay. And -- and, you know, and that was an 3 THE WITNESS: <sup>4</sup> interesting search. There is new -- there is new I'm sorry. <sup>5</sup> MS. O'DELL: <sup>5</sup> data. Do you remember where you searched for No worries. 6 Q <sup>7</sup> the geology of the Italian deposit? <sup>7</sup> MR. FROST: It was just Google searches. Putting So you certainly didn't take 8 Q <sup>9</sup> Dr. Zelikoff's report to draft yours; correct? <sup>9</sup> in Val Chisone or Val Germanasca talc, You -- you 10 A 10 begin to get lots of hits. And there -- there Certainly not. 11 O And the -- the language in these 11 are a couple of recent papers that are pretty <sup>12</sup> various paragraphs I pointed out weren't provided 12 good. 13 to you by plaintiffs' counsel? 13 **Q** And I believe -- I think you cite 14 A No. 14 Mindat.org? 15 A 15 O Okay. And you don't know how they Yes. 16 O <sup>16</sup> ended up in Dr. Zelikoff's report? And that's -- that's the types of things you were searching through on the 17 A I have no earthly idea. 18 Q Okay. Thank you. I'm done with 18 Internet? 19 A <sup>19</sup> Dr. Zelikoff's. You can put that to the side. Well, Mindat.org is -- that's sort of 20 I will say, may as well keep your -an interesting website. It -- it originated in Poland, and the amount of work that's gone into As we go through today, I'm sort of 22 that is -- is unbelievable, because there's only 22 going to reference your report. 23 A Sure. a couple of guys that did this. 24 **O** So you may as well keep Exhibit 2 close And the value of Mindat.org is that, Page 67 Page 69 <sup>1</sup> for many of the localities where they'll 1 by --<sup>2</sup> attribute a mineral to, they'll list the 2 A Okay. -- as we'll be walking through that as 3 **Q** <sup>3</sup> reference. So it's a darn good place to go find <sup>4</sup> the day progresses. <sup>4</sup> references. 5 A Okay. 5 **Q** It's a great place to start? Yeah. It's a really good place to 6 O And we had already talked about it <sup>7</sup> start. And -- and they've won awards, worldwide <sup>7</sup> before, but it seems like you did -- is it fair <sup>8</sup> to say that you did investigation of your own 8 awards, for that particular site and the amount <sup>9</sup> library to find some of the reference material <sup>9</sup> of work they've had to put into it. 10 you cite in your report? 10 O And you've already told me nobody 11 A 11 helped you draft your report. Did anybody help Yes. 12 **Q** Other than looking through your 12 you do the research? 13 physical library, did you do any other type of 13 A No. 14 research? Did you go to a research library, 14 O You didn't use any graduate students

- <sup>15</sup> Internet, anything like that?
- 16 A For the most part, there was no reason
- 17 to. I've got a complete set of American
- 18 Mineralogist back to day one, complete set of
- 19 Economic Geology to day one, complete set of
- <sup>20</sup> Bibliography of North American Geology. And
- <sup>21</sup> everything that the USGS has done, I have a copy
- 22 of. I mean, I had 5,000 books.
- 23 And, so, the only thing I really -- I
- <sup>24</sup> really did on the Internet was search for geology

- 15 or --
- No. No. No, no, no. 16 A
- 17 O Okay. All right. And we -- we've
- 18 covered a little bit of this, but your
- 19 background, do you consider yourself a geologist,
- <sup>20</sup> a mineralogist? What -- how do you define your
- 21 expertise?
- 22 A Well, you know, I started out as a
- <sup>23</sup> mining engineer. So my original educational
- <sup>24</sup> background was in mining engineering. And then I

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- <sup>1</sup> was lucky enough to get to go on in graduate
- <sup>2</sup> school at Georgia in geology. And, so, I'm
- <sup>3</sup> really both. I'm a mining engineer. I'm not a
- <sup>4</sup> registered engineer. I should have gone ahead
- <sup>5</sup> and done that, but I didn't. But I am, of
- <sup>6</sup> course, a registered geologist in -- in a number
- <sup>7</sup> of states.
- <sup>8</sup> Q I was gonna say, I believe you're
- <sup>9</sup> registered in Georgia, Florida, and Alabama?
- <sup>10</sup> A Right. Those are the -- the three good
- <sup>11</sup> ones.
- <sup>12</sup> Q All right. And you're not a medical
- <sup>13</sup> doctor; correct?
- <sup>14</sup> A I'm -- I'm certainly hoping I'm not.
- <sup>15</sup> Q Right?
- <sup>16</sup> A No, I'm not.
- And you're not a toxicologist?
- <sup>18</sup> A No.
- <sup>19</sup> Q And you don't hold a degree in either,
- 20 you know --
- Medical doctor is a terrible way, but
- <sup>22</sup> you don't hold an M.D. or a degree as a
- <sup>23</sup> toxicologist; correct?
- <sup>24</sup> A No. No.

- <sup>1</sup> fines, MSHA fines, I'm probably an expert.
- <sup>2</sup> Q Okay. Have you ever done any -- any

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- <sup>3</sup> research or publication regarding mine
- 4 regulations?
- <sup>5</sup> A In terms of research, yes. But -- but
- 6 in a practical sense, I mean, I -- I have an
- <sup>7</sup> interest in three operating mines, so -- so I
- 8 have to try to stay on top of this.
- <sup>9</sup> Q Okay. Have you ever participated in
- 10 the regulatory process either with, you know, the
- 11 SEC, JORC, any of the other regulatory agencies?
- No. But I have tried to supply
- 13 students to the regulatory agencies, and -- and I
- 14 have a number that -- that are -- are pretty high
- 15 up. One of mine is very high up in EPA right
- 16 now. And I am kind of proud of them. I've got
- <sup>17</sup> three or four that are really doing well.
- <sup>18</sup> Q Okay. But you yourself have never --
- 19 A Well --
- <sup>20</sup> Q -- been part of that process?
- <sup>21</sup> A Well, they send me consulting work.
- <sup>22</sup> Q Okay.
- <sup>23</sup> A Why do you think I pointed them in that
- <sup>24</sup> direction?

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- Q And you have no formal training in
- <sup>2</sup> either what I'll call human medicine or
- <sup>3</sup> toxicology?
- <sup>4</sup> A No
- <sup>5</sup> Q Do you consider yourself a regulatory
- 6 expert?
- <sup>7</sup> A 40 CFR is -- I mean, I -- I understand
- 8 some of it, and I've certainly worked with it.
- 9 When -- when the RCRA law first came
- out, I was -- I was into that very deep. And
- <sup>11</sup> today, probably not, except in very specific
- 12 areas.
- <sup>13</sup> Q Would one of -- do you consider your --
- 14 yourself an expert in the regulatory process of
- <sup>15</sup> talc mining or talc ore?
- <sup>16</sup> A I'm not sure that -- that there really
- <sup>17</sup> is a regulatory issue related to talc mining that
- 18 -- that's unique. There are certainly
- 19 regulations related to that type of mining, and I
- <sup>20</sup> -- I'm familiar with them.
- Okay. Is it just a familiarity, or
- <sup>22</sup> would you consider yourself an expert in the --
- <sup>23</sup> the regulations regarding that type of mining?
- <sup>24</sup> A In that I have had to suffer through

<sup>1</sup> Q Well, sure.

- Other than sending you consulting work,
- <sup>3</sup> you know, you've never testified before any of
- 4 the bodies or --
- 5 A Well --
- <sup>6</sup> Q -- given any comments --
- <sup>7</sup> A -- I've testified relative to,
- 8 you know --
- 9 Yes, I've testified relative to
- 10 litigation in terms of the mining impact on
- <sup>11</sup> private properties.
- 12 Q Okay. Have you ever testified at any
- 13 of the hearings regarding regulations or
- 14 commented on the regulatory process?
- <sup>5</sup> A The only one that I formally commented
- <sup>16</sup> on was the SOAP program, which was called the --
- 17 the Small Operator Assistance Program, that was
- put in place probably in the late '70s. And it
- may not even exist anymore. But it was a way
- 20 that small mining companies could get federal
- 21 assistance so that they -- they were able to
- <sup>22</sup> comply with new environmental regulations. And I
- <sup>23</sup> actually participated in that.
- <sup>24</sup> Q Okay. Have you ever formally commented

- <sup>1</sup> on any regulations regarding, you know, for
- <sup>2</sup> example, requirements of drilling, requirements
- <sup>3</sup> of sampling and compositing, anything of that
- 4 nature?
- <sup>5</sup> MS. O'DELL:
- To regulatory agencies?
- <sup>7</sup> MR. FROST:
- To regulatory agencies. 0
- I've had discussions with regulators. 9 A
- 10 Q But no formal comments?
- 11 A No. no.
- 12 **Q** Have you ever worked with talc before?
- 13 A Yes.
- 14 Q When was that?
- Well, first thing I ever did with talc 15 A
- <sup>16</sup> was to get money to live on. I sold talc when I
- <sup>17</sup> was between my -- my graduation date at the
- <sup>18</sup> School of Mines and when I started at Georgia.
- 19 There was a company that was trying to
- <sup>20</sup> buy talc to put into kits that they were selling,
- <sup>21</sup> mineral kits. And, so, they -- they sent me a
- 22 list of materials they wanted, and talc was right
- 23 at the top.
- 24 So I knew some of the talc locations in

- So, from that standpoint, I have a
  - pretty good background into the geology of that

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- type of talc occurrence, keeping in mind that
- <sup>4</sup> that isn't the only type.
- 5 Q Uh-huh.
- But I have done work for companies that
- <sup>7</sup> are exploring for talc.
- In fact, I just recently -- I -- I had
- to relog some drill core and redo some thin
- sections for a company that -- that had
- undertaken a talc project as a consultant and
- then they were unable to do it. They -- they
- <sup>13</sup> weren't sure what they were doing.
- 14 You know, we -- I'm sure we'll mention
- Alice Blount. She -- she was interested in the
- <sup>16</sup> talc deposits at Winterboro, Alabama, and I had
- drilled them with a -- a company and had also
- designed an exploration program for additional
- 19 talc deposits at Winterboro which were carried <sup>20</sup> out.
- 21 But Dr. Blount wanted to look at the
- <sup>22</sup> drill core. And -- and I was actually the one
- 23 that pulled the boxes for her and showed her the
- 24 intervals that she wanted to show and -- and

- <sup>1</sup> Georgia, and so I went and began to pick through
- <sup>2</sup> the mine dumps looking for lumps of talc that
- 3 made it onto the dumps. That was my first
- 4 experience with talc.
- But, since then, it -- it's gone a long
- 6 way. I mean, I'm looking at ultra -- ultramafic
- <sup>7</sup> rocks right now in a project that we actually key
- 8 in on talc and asbestos occurrences. But we're
- <sup>9</sup> looking for nickel and -- and precious metals
- 10 associated with them. And this has grew out of
- 11 some work I did for the US Geological Survey.
- 12 Six of us put together one of their professional
- 13 papers, number 1475, which was a paper that
- 14 discussed the -- the evolution of -- of the
- <sup>15</sup> eastern part of the US, specifically Georgia and
- 16 Alabama.
- 17 But what we came up with was a -- a
- 18 much broader picture that would allow a
- 19 connection all the way up the Eastern Seaboard,
- 20 even into Vermont and on into Canada, that showed
- 21 the relationship of ultramafic rocks to the
- <sup>22</sup> development of the eastern part of the US. And
- 23 that has -- you know, people are still citing it,
- <sup>24</sup> cursing it and citing it.

- Page 77 <sup>1</sup> would turn my back when she took a sample, that
- <sup>2</sup> kind of thing. So...
- 3 **Q** All right.
- 4 A So, anyway...
- And -- and I've been working -- working
- <sup>6</sup> on talc projects all along since -- since I got
- <sup>7</sup> out of school.
- 8 **Q** Okay. Have you ever published anything
- other than this -- the USGS paper regarding talc?
- 10 A Yes. The -- I wrote the mineralogies
- 11 for both Georgia and Alabama, and there are
- 12 sections on talc in both of those.
- 13 **O** And other than the two books you
- <sup>14</sup> published, is there anything else that you
- published, peer-reviewed? 15
- 16 A I'm absolutely sure that there are.
- 17 I'm -- I'm an executive editor for a magazine
- that publishes Geographic Mineralogy, and I've
- edited many papers dealing, in part, with talc
- for that journal. So...
- 21 But in terms of have I -- have I
- 22 discussed talc in any other papers? I'm sure,
- 23 yes. I mean, you've got my -- my vita.
- 24 **O** Uh-huh.

1 A And, I mean, there's a lot of pages in <sup>2</sup> there. I'd have to go through them one by one

<sup>3</sup> and think back and, you know, "Did I mention

4 talc?"

5 The problem with this is that I've done

<sup>6</sup> petrographic work for probably 25 or 30 quarries.

<sup>7</sup> And -- and this is done routinely.

8 I mean, some of these quarries I've

<sup>9</sup> done the work maybe four or five times because

10 they do it ann- -- maybe not annually but maybe

<sup>11</sup> every couple of years, just to make sure that

12 their product does not contain asbestos.

13 **Q** Uh-huh.

14 A And, so, talc is not that rare of a

15 mineral. And, so, I'm sure that, in some of

16 those reports, I'm -- I'm mentioning, "Yep,

17 you've got .03 percent talc in your product."

I guess a better way to ask this

19 question, have you ever published any literature

20 that expressly focuses on talc, as opposed to

<sup>21</sup> just mentioning it within the paper?

22 MS. O'DELL:

23 So solely on talc.

24 MR. FROST:

1 O I think I've read that amphiboles make

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<sup>2</sup> up a -- it's a creepy percentage. It's like 10

3 or --

4 A I -- I saw that, and I questioned it.

<sup>5</sup> MS. O'DELL:

Let him finish, Doctor.

THE WITNESS:

Okay.

MR. FROST:

I was gonna say, have you ever read

<sup>11</sup> anything about, you know, sort of how abundant

<sup>12</sup> amphiboles are?

13 MS. O'DELL:

14 Object to the form.

15 A Yes.

<sup>16</sup> MR. FROST:

17 O Okay. Do you agree with me the --

<sup>18</sup> especially throughout the Eastern United States,

19 the Appalachian Belt, things like that,

<sup>20</sup> amphiboles are extremely common?

21 A They are. They -- they occur generally

<sup>22</sup> in belts of rocks. You know, when -- when you

23 see the -- the number that you're referring to,

<sup>24</sup> I -- I read that, and I said, "Holy criminy,

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Yes, solely on talc or where talc is 1 O

one of the main -- it wouldn't be solely, but,

<sup>3</sup> you know, where talc is the main focus of the

<sup>4</sup> paper or the research.

5 A I'm gonna say no, but -- but maybe I

6 might think of one or two --

7 **Q** Okay.

8 A -- as we -- as we go along.

9 **Q** If you do, let me know.

10 Have you ever published anything

11 regarding amphiboles directly?

12 A Yeah. The -- the same story is true

13 there because, I mean, amphiboles are -- are

14 exceedingly common, and I probably -- I probably

<sup>15</sup> have 50 publications that deal with amphiboles.

16 **Q** That deal with amphiboles specifically?

17 A Yeah. Yeah. They'll be -- well, the

18 problem with amphiboles is they're such a

19 common -- the family is so common that -- that if

20 you're gonna go out in the crystalline rocks of

21 the Eastern US, you're gonna find amphibolites or

<sup>22</sup> rocks that contain amphiboles. And, then, if

23 you're gonna write -- write the paper, you -- you

<sup>24</sup> describe them.

<sup>1</sup> this -- this just can't be right."

But, then, if -- if you begin to think

<sup>3</sup> about the shallow crust, a great -- a large

<sup>4</sup> percent of it is really oceanic crust. And

<sup>5</sup> amphiboles and related mafic minerals are very

6 common in the oceanic crust. And, of course,

<sup>7</sup> that underlies the continents, so...

8 Q Have you ever done any testing of talc?

9 A In terms of, like, brightness, density,

<sup>10</sup> no.

11 Q Okav.

I -- I've certainly described talc, 12 A

13 you know, optically in thin section.

14 Q What do you mean by "described" it?

15 A You know, if it occurs in a rock, I

would describe grain size, relationship to

<sup>17</sup> adjacent mineral grains, that type of thing.

Okay. What about amphiboles? Have you 18 O

<sup>19</sup> ever done any specific testing on amphiboles?

20 MS. O'DELL:

21 Object to the form.

22 A Let me back up. I've x-rayed talc

23 in -- in years past, and I've certainly x-rayed a

24 lot of amphiboles.

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<sup>1</sup> MR. FROST:

- <sup>2</sup> Q And by "x-ray," are you talking about
- 3 XRF or XRD?
- 4 A XRD.
- <sup>5</sup> Q And was this related to academics, or
- <sup>6</sup> was this related to the work you were doing with
- <sup>7</sup> some of the mining companies?
- <sup>8</sup> A Academics.
- <sup>9</sup> Q And was this for mineral identification
- 10 purposes?
- <sup>11</sup> A Mainly.
- 12 Q Did you ever publish any of your
- 13 mineral identification XRD work on either talc or
- <sup>14</sup> amphiboles?
- <sup>15</sup> A A lot of it is published but without
- <sup>16</sup> reference to the analytical technique.
- I mean, I -- when you're -- when you're
- <sup>18</sup> writing a paper, you can't describe how you
- <sup>19</sup> identified every single mineral grain in every
- <sup>20</sup> single sample. I mean, it's just impossible.
- But it was very common to -- to run
- <sup>22</sup> confirmatory x-ray diffraction analyses on
- 23 samples that we thought we knew what we had.
- 24 "Let's -- let's check and make sure."

- 1 study for about six or eight of their quarries.
- <sup>2</sup> But they were -- you know, they were concerned,

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- <sup>3</sup> like everybody is, is quarrying something out of
- <sup>4</sup> the ground that -- that, you know, when you're
- <sup>5</sup> producing a couple million tons a year out of a
- 6 single hole in the ground in hard rock that's of
- <sup>7</sup> a metamorphic grade that might have asbestos
- 8 minerals, you want to know whether or not you've
- <sup>9</sup> got something.
- 10 Okay.
- <sup>11</sup> A And, so, I did the work for Oldcastle,
- <sup>12</sup> and they have a whole series of reports that I
- 13 did for them that -- that outline the absence of
- <sup>14</sup> asbestos.
- <sup>15</sup> Q Okay. And Oldcastle, I looked them up.
- <sup>16</sup> I believe they're a gravel quarry? Is that -- is
- <sup>17</sup> that fair?
- <sup>18</sup> A No.
- 19 Q Okay.
- <sup>20</sup> A They're one of the largest construction
- 21 materials company in the world. They own the
- 22 Bank of Scotland. That's where the word
- <sup>23</sup> Oldcastle comes from. They're a Scottish
- 24 company --

- $^{1}\,\,\,\mathrm{Q}$  Do you consider yourself an expert in
- <sup>2</sup> XRD?
- <sup>3</sup> A I would say that I used to be. I could
- <sup>4</sup> just about make a diffractometer jump up and
- <sup>5</sup> dance. Not -- not anymore. There's a whole new
- <sup>6</sup> generation of machines out there that are -- that
- <sup>7</sup> are -- can do things that I never thought would
- <sup>8</sup> ever be done.
- <sup>9</sup> Q And it's just not something -- you
- <sup>10</sup> haven't kept up with the technology or the
- 11 research?
- <sup>12</sup> A No. Actually, they sold my -- I had
- 13 a -- I had my own x-ray machine, and the
- <sup>14</sup> university sold it when I retired because nobody
- 15 knew how to run it. I'm serious. I -- they
- <sup>16</sup> should have never done that.
- <sup>17</sup> Q All right. Have you ever done -- have
- <sup>18</sup> you ever published anything regarding asbestos?
- 19 A Same -- same story. You know, in -- in
- 20 the two state mineralogies, there's lots of
- <sup>21</sup> information I published on asbestos. And I've --
- <sup>22</sup> you know, I've testified relative to asbestos and
- 23 for -- and I'm -- I'm sure that I can say this,
- <sup>24</sup> but for Oldcastle, I did a complete asbestos

- <sup>1</sup> Q Okay
  - <sup>2</sup> A -- that operate in the US under a lot
  - <sup>3</sup> of different names. But -- but the man I did
  - <sup>4</sup> this for was David Toolan, who's their general
  - <sup>5</sup> counsel in Atlanta. And so I used the word
  - <sup>6</sup> "Oldcastle" because he's the Oldcastle general
  - <sup>7</sup> counsel.
  - <sup>8</sup> Q What type of ores were you looking at
  - <sup>9</sup> when you were doing these reviews?
  - <sup>10</sup> A What was that?
  - <sup>11</sup> Q What type of ores were you looking at
  - <sup>12</sup> when you were doing these reviews?
  - <sup>13</sup> A Everything they had was being sold for
  - <sup>14</sup> aggregate for one use or another. You know,
  - <sup>15</sup> there are different uses for aggregate.
  - <sup>16</sup> O Uh-huh.
  - <sup>17</sup> A And, so, each one of the quarries was a
  - 18 quarry that -- that was crushing and sizing stone
  - <sup>19</sup> for either a concrete market, a surface materials
  - <sup>20</sup> market.
  - A lot of material gets -- gets sold to
  - <sup>22</sup> Florida because Florida doesn't have adequate
  - <sup>23</sup> rock to surface their own highways. So
  - <sup>24</sup> everything that is -- is a good surface material,

Page 86 Page 88 <sup>1</sup> if it's asphalt in Florida, it's coming out of 1 O And you've never published anything <sup>2</sup> regarding talcum powder specifically; correct? <sup>2</sup> Georgia or Alabama. Okay. So --3 **A** 3 **Q** 4 Q 4 A And that's -- that's the type of stuff. And did you have any opinions All right. I apologize. I used the <sup>5</sup> regarding, you know, talcum powder and the 5 O 6 word "gravel." I'm guessing gravel is probably 6 potential of asbestos or heavy metals in talcum <sup>7</sup> not --<sup>7</sup> powder prior to being engaged in this litigation? 8 A 8 MS. O'DELL: No. Object to the form. 9 Q -- the right mining term. 10 A I'm very upset with that. 10 A No. 11 **Q** But I think we're talking about the 11 MR. FROST: 12 same thing. 12 O Okay. 13 A Yeah. 13 All right. That's a good place to take 14 O So aggregate seems to be the correct <sup>14</sup> a break. <sup>15</sup> term. <sup>15</sup> VIDEOGRAPHER: 16 A Going off the record. The time is Aggregate. <sup>17</sup> O And I apologize. 10:06 a.m. 18 And it seems like your job was to (OFF THE RECORD.) 19 determine -- locate asbestos within that ore, or 19 VIDEOGRAPHER: 20 <sup>20</sup> the absence of it? We're back on the record. The time is Well, it was -- it was a little bit 21 A <sup>21</sup> 10:25 a.m. 22 more than that. They had -- I had to go and 22 MR. FROST: <sup>23</sup> sample their stockpiles and select samples from All right. Let's turn to page 2 of <sup>24</sup> your report. And under the section "Summary of 24 the stockpiles to --Page 87 Page 89 I use a lab in Salt Lake City or in <sup>1</sup> Opinions," you've set forth seven opinions. Does <sup>2</sup> that sound right? <sup>2</sup> Lindon, Utah, which is south of Salt Lake, to <sup>3</sup> make my -- my -- my thin sections. And, so --3 **A** Yes. 4 and then I would do complete thin section 4 O Will you agree with me that, you know, <sup>5</sup> analysis for each sample. And I would count more <sup>5</sup> these are the opinions -- these are the ultimate <sup>6</sup> or less a thousand grains in each thin section <sup>6</sup> conclusions and the opinions that are supported <sup>7</sup> and -- and report on the mineral composition of <sup>7</sup> by your report? 8 A 8 their rock. Yes. 9 **O** Uh-huh. 9 **O** And I won't read them all, but I'll 10 A And if there was a --<sup>10</sup> start by going over a couple of them. The first 11 And some of them actually have <sup>11</sup> opinion states, "Talc deposits derived by the <sup>12</sup> amphiboles. But, with one exception, I never saw <sup>12</sup> alteration of serpentinites contain chrysotile <sup>13</sup> anything that I would have -- I would have, you <sup>13</sup> and amphibole species and fibrous asbestiform 14 know, said this is a -- you know, you're looking 14 habits, all of which are known carcinogens." <sup>15</sup> at some chrysotile or something like that. I did 15 Did I read that correctly? 16 A 16 see some once. I believe so. 17 **Q** 17 **Q** Okay. Have you ever done any testing And you'll agree with me that the 18 question here is whether or not -- it's not <sup>18</sup> of finished talcum powder? 19 A No. 19 necessarily what's in the deposit; correct? 20 MS. O'DELL: <sup>20</sup> We're concerned with what's in -- what ends up in 21 Jack, are you at a stopping point? 21 the ore. Would you agree with that? 22 MR. FROST: 22 MS. O'DELL:

23

24 A

Object to the form.

I'm not sure you're not asking a -- a

<sup>24</sup> and then I'll be done with this topic.

Yeah. I've got like one more question,

Page 92 <sup>1</sup> redundant question of some sort, because what is <sup>1</sup> MR. FROST: <sup>2</sup> in the ore is in the -- in the deposit 2 **Q** Okay. <sup>3</sup> as a whole, unless you want to refine that a 3 **A** In --4 little bit. 4 Q And, so, what I want to get at --<sup>5</sup> MR. FROST: <sup>5</sup> MS. O'DELL: I was gonna say, are you looking at 6 Q Let him finish. <sup>7</sup> deposit more -- are you looking at deposit as Were you finished, Dr. Cook? 8 only the ore, or are you looking at deposit as Well, I was gonna -- gonna just finish <sup>9</sup> the entirety of -with one more sentence. 10 I'll -- I'll strike that. <sup>10</sup> MR. FROST: 11 O 11 You agree with me what is the -- the Sure. Go ahead. 12 mineable deposit is different than the entirety In -- in the ore deposit itself, the 13 of the deposit when you're talking about talc; <sup>13</sup> talc ore, of course, is gonna be different from 14 correct? the serpentinite from which it was derived. 15 A Yeah. Yes and no. Don't -- I -- I I mean, serpentinite and talc are not object to the use of the word "deposit." <sup>16</sup> the same thing, so, of course they're different. 17 "Deposit," to an economic geologist, means the --17 Would you agree with me that, within <sup>18</sup> the occurrence of the ore. 18 the talc deposit, you can have areas of the talc 19 **Q** Okay. 19 that are less pure than other areas of the 20 A <sup>20</sup> deposit, say closer to or further from the -- the And so -- so you're -- what -- I think 21 what you're saying is that the serpentinite as a <sup>21</sup> edges of the deposit? <sup>22</sup> whole may be mineralogically at variance with the <sup>22</sup> A Sure. 23 **Q** <sup>23</sup> ore deposit itself. And you'd agree with me that not the --24 Is that what you're asking? <sup>24</sup> not all of that talc will end up getting mined Page 91 Page 93 That's correct. That's what I'm <sup>1</sup> and used as the ultimate ore; correct? 1 O <sup>2</sup> MS. O'DELL: <sup>2</sup> talking to. You can have -- when you look at a -- I Object to the form. 4 was talking about deposit in more of a global That may or may not occur. There are <sup>5</sup> term, that when you have an area of talc, I was <sup>5</sup> companies who will get every single scrap of --6 looking at that as the deposit and then -- which 6 of ore they can, and that would -- that would <sup>7</sup> is separate from the sort of smaller economic <sup>7</sup> cause them in some cases to incorporate some of 8 deposit of ore that's mineable inside of it. 8 the wall rock in with the last bit of ore that 9 MS. O'DELL: <sup>9</sup> they remove. And, so, that's -- that happens. 10 Object to the form. <sup>10</sup> That's not really very uncommon. <sup>11</sup> MR. FROST: 11 MR. FROST: So when you refer to "deposit," you're Okay. Focusing, though, on cosmetic 13 just talking about the mined ore and not what 13 talc, which, you know, is what we're concerned 14 surrounds it? 14 with here --<sup>15</sup> A 15 MS. O'DELL: Right. 16 16 O -- you'd agree with me that if you have Object to the form. It may not be mined. It would be part an area of the deposit that is, you know, only 17 A <sup>18</sup> of the talc deposit per se. These things are 18 5 percent talc and an area of the deposit that is 19 part of a -- a larger occurrence of -- of a rock 19 60 percent talc, that the -- what becomes the ore 20 that's silica-deficient, rich in magnesium. It's 20 does not necessarily come from the -- they're not 21 altered by the influx of warm waters at some 21 gonna use the entire deposit to create cosmetic <sup>22</sup> point. And within or around or adjacent to maybe <sup>22</sup> ore: correct? <sup>23</sup> in some cases a core of serpentinite, you will 23 MS. O'DELL: <sup>24</sup> have a talc deposit. 24 Object to the form.

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1 A I -- I think that that's -- that's a

- <sup>2</sup> fair statement. But you might also say you
- <sup>3</sup> wouldn't use the entire deposit to make -325 mesh
- <sup>4</sup> talc to put in paint. I mean, it -- you know,
- <sup>5</sup> you could say that with respect to a lot of the
- <sup>6</sup> products.
- <sup>7</sup> MR. FROST:
- 8 O Sure.
- 9 So that's what I'm getting at is it's
- 10 not necessarily the entire deposit that is of
- <sup>11</sup> concern. It's really which part of that deposit
- <sup>12</sup> ends up becoming the talc ore. Correct?
- <sup>13</sup> A Correct.
- 14 MS. O'DELL:
- Object to the form.
- <sup>16</sup> MR. FROST:
- <sup>17</sup> Q Okay.
- 18 MS. O'DELL:
- Give me just a second.
- 20 THE WITNESS:
- Yeah. Sorry about that.
- 22 MR. FROST:
- 23 Q And the first opinion relates to the
- <sup>24</sup> alteration of serpentinites. That, for purposes

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- know, that it's been determined to have similar
   health effects as asbestos, and you quote two
- <sup>3</sup> IARC papers.
- <sup>4</sup> A Yes.
- <sup>5</sup> Q And I think we've -- we've already
- <sup>6</sup> determined you're not an expert. You know,
- <sup>7</sup> you're not a doctor. You're not a toxicologist.
- 8 A No.
- <sup>9</sup> Q And are you aware, sitting here today,
- 10 of any scientific studies that have determined
- 11 fibrous talc to be a human carcinogen?
- 12 A I'm aware that IARC says it is.
- Okay. And, other than IARC, can you
- 14 cite to me any other studies that show that
- 15 fibrous talc is a human carcinogen?
- <sup>16</sup> A I cannot. But I'd like to say that
- <sup>17</sup> IARC wouldn't have considered it carcinogenic if
- 18 there weren't studies that supported that
- <sup>19</sup> conclusion.
- 20 Q And you're not here to, you know, opine
- 21 what may or may not cause human disease; right?
- <sup>22</sup> A No, absolutely not.
- 23 Q And do you consider yourself to be an
- <sup>24</sup> expert in reading, you know, IARC and

- <sup>1</sup> of this case, only relates to Vermont; right?
- <sup>2</sup> A Let me see the way I've worded that
- <sup>3</sup> again.
- <sup>4</sup> For purposes of this case, yeah.
- <sup>5</sup> Q Okay. You'll agree with me that in
- <sup>6</sup> China and Italy are derivations of carbonates?
- <sup>7</sup> A That's what I'd say, yes.
- <sup>8</sup> Q Looking at the second opinion, which is
- <sup>9</sup> B, the one that states -- talks about fibrous
- <sup>10</sup> talc --
- <sup>11</sup> A Right.
- <sup>12</sup> Q -- at the very end of that you state
- 13 that, "Fibrous talc fulfills the requirements for
- <sup>14</sup> inclusion with asbestiform minerals which are
- <sup>15</sup> known to be human carcinogens."
- <sup>16</sup> A Correct.
- Okay. And you repeat this on page 9 of
- 18 your report.
- <sup>19</sup> A Okay.
- 20 Q It appears to be -- it's the last
- <sup>21</sup> sentence. Is it the last sentence? Sorry. It's
- <sup>22</sup> the sentence before that. You talk -- generally,
- <sup>23</sup> it's that last paragraph. Again, we're talking
- <sup>24</sup> about, you know, fibrous tale, and then, you

- Page 97
- <sup>1</sup> interpreting IARC monographs?
- <sup>2</sup> A No.
- <sup>3</sup> Q Okay. And you agree with me that the
- 4 IARC monographs themselves aren't firsthand
- <sup>5</sup> research papers; correct?
- 6 MS. O'DELL:
- Object to the form.
- I think that there are people that
- <sup>9</sup> would consider some of them research papers in
- 10 that it is they are drawing conclusions based on
- 11 research into the literature with a hypothesis
- 12 that fibrous talc does cause cancer or they might
- 13 use an alternate hypothesis, fibrous talc does
- 14 not cause cancer. And then to support either one
- <sup>15</sup> of those opinions, they're looking at the results
- <sup>16</sup> of research.
- 17 O You --
- <sup>18</sup> A And, so, from that standpoint, maybe
- 19 the IARC documents are in a way a research paper.
- <sup>20</sup> Q Well, you agree with me they're not
- 21 doing any independent lab work?
- <sup>22</sup> A I don't think they are.
- 23 Q And they're not doing any independent
- <sup>24</sup> epidemiology studies on their own?

Page 98 Page 100 1 A I don't think so. 1 A No. 2 **Q** 2 **Q** Do you intend to publish your opinions Okay. Let me back up. I don't know what 3 A 3 in this case? <sup>4</sup> their budgeting is. There are organizations like 4 A No. <sup>5</sup> this that make grants for the study of things 5 O Is there a particular reason why you --<sup>6</sup> that they're interested in gathering data on. 6 you do or don't intend to publish them? <sup>7</sup> The World Health Organization as a whole I think I don't think it's a -- I don't think <sup>8</sup> does. National Institute of Health does here in 8 it's a good practice to do this. I know people <sup>9</sup> the US. They're a very, very robust ranking <sup>9</sup> that do, and they're not looked upon well by 10 their peers. I don't think it's good to publish <sup>10</sup> agency. 11 O Okay. With respect to the IARC <sup>11</sup> data that's generated in litigation. 12 monographs, you'd agree with me that they're 12 **Q** And it's --13 reviewing work done by other scientists and 13 A That's my personal opinion. <sup>14</sup> drawing conclusions based on them? 14 O No. That's a fair opinion. 15 A 15 So you believe there's a difference That's what I -- sure. 16 O And other than what the conclusions <sup>16</sup> between litigation-derived, you know, research <sup>17</sup> that IARC has drawn, you can't point me to any and opinions versus academic-derived research --<sup>18</sup> peer-reviewed studies that support their MS. O'DELL: 19 research? Object to the form. 20 A No. I'm -- I'm sure they're listed in 20 MR. FROST: <sup>21</sup> the monographs. 21 **O** -- research and opinions? And you'd also agree with me that IARC 22 MS. O'DELL: <sup>23</sup> does not conclude that there's any link between 23 I'm sorry. <sup>24</sup> fibrous talc and ovarian cancer; correct? 24 MR. FROST: Page 99 Page 101 <sup>1</sup> MS. O'DELL: I didn't -- I didn't think you were <sup>2</sup> being rude in talking over me. Object to the form. 3 A I don't know the answer to that. <sup>3</sup> MS. O'DELL: 4 MR. FROST: Yes. Yeah. I was just trying to get <sup>5</sup> O That's fine. "I don't know" is a <sup>5</sup> my objection in. Objection. <sup>6</sup> perfectly acceptable answer. Yeah. I -- I think that they -- that I'm not saying that there's a <sup>8</sup> difference. I think that it has to do with <sup>8</sup> ovarian cancer is mentioned. But in the actual <sup>9</sup> statement that it's a group 1 member, they <sup>9</sup> motivation behind research, has to do with who's <sup>10</sup> probably don't mention ovarian cancer per se. <sup>10</sup> paying for it. I think it's more of a 11 **Q** <sup>11</sup> philosophical issue with me than anything else. Okay. And --<sup>12</sup> A 12 MR. FROST: But -- but they might. I don't know <sup>13</sup> that. 13 **O** Did you certainly --14 A I've been involved with litigation 14 O All right. And you're not an expert on 15 the subject, so you can't sit here and tell me since probably the mid-1970s, and I've never <sup>16</sup> what types of cancer fibers talc may or may not <sup>16</sup> thought about publishing the results that I <sup>17</sup> be associated with? obtained during a litigation research project, 18 A No. No. 18 let's say. 19 O Other than the seven opinions that we 19 **O** Okay. You'd agree with me that's <sup>20</sup> have put forth here on pages 2 and 3 of your <sup>20</sup> because there are issues with potential bias <sup>21</sup> report, do you have any other opinions that you 21 issues --22 plan to render --22 A 23 A 23 **Q** -- with conflict of interest No. 24 O -- in this case? <sup>24</sup> disclosures?

Page 102 Page 104 So what are the characteristics that <sup>1</sup> MS. O'DELL: Excuse me. Give me a chance. <sup>2</sup> these minerals have to have to be called <sup>3</sup> asbestos? Well, fibrous. They've got to have an 3 **A** Sorry. <sup>4</sup> MS. O'DELL: 4 aspect ratio of -- some people want to say as low Object to the form. <sup>5</sup> as 3-to-1. I don't agree with that. 5-to-1 is <sup>6</sup> what most people, I think, would use today. I don't think there's a question They occur in groups of parallel pending, Doctor. 8 MR. FROST: 8 fibers. Can be -- you can call them bundles. Bundles can show -- if you look at the end of a Q Yeah. I was going to say, did you 10 bundle, you can see that they -- that there is --10 answer? 11 11 they are composed of more than one particle. You The second part of the question, so 12 you -- the second part of the question is, you 12 can begin to see a spray at the end of a bundle. 13 know, one of the issues would be conflict of These things are -- they're flexible. <sup>14</sup> interest disclosures, sources of funding, things 14 In other words, you can bend them without <sup>15</sup> breaking, for the most part, although that's a 15 like that would all, you know, go into the 16 little bit questionable because the -- the <sup>16</sup> decision as to whether or not, you know, you <sup>17</sup> tendency to break perpendicular to the length in would decide to publish? <sup>18</sup> MS. O'DELL: <sup>18</sup> amphiboles is different from -- in chrysotile. 19 19 So there can be a little bit of a difference Object to the form. 20 A <sup>20</sup> there. The conflict of interest is -- is a <sup>21</sup> really important topic. And -- and I agree that The tensile strength is usually pretty 22 high. 22 would be one of the reasons not to. 23 **Q** <sup>23</sup> MR. FROST: Okay. 24 **O** 24 A Resistance to electricity, resistance Okay. Turn to page 4 of your report. Page 103 Page 105 <sup>1</sup> At the beginning of the second paragraph you note <sup>1</sup> to heat. I think that they need to be larger <sup>2</sup> that talc deposits can attain -- can contain <sup>2</sup> than 5 microns in length to be of significance. <sup>3</sup> asbestos. So what we're really talking about are 4 A <sup>4</sup> fibers, minerals that occur in fibers that have Uh-huh. 5 O How do you define asbestos? <sup>5</sup> to belong to generally that group of minerals Well, fibrous mineral that is -- I'm <sup>6</sup> that were originally described. 7 **Q** <sup>7</sup> trying to decide how to describe mineralogically And do you recall what the five 8 what they are, because the original six 8 amphibole minerals were? <sup>9</sup> chrysotile and then the five amphiboles that are Well, the problem with this is that 10 mentioned, the five amphiboles, some of them are 10 some of them are called minerals and they're 11 not even minerals anymore. And, so, somebody <sup>11</sup> actually trade names. 12 somewhere has got to go in and actually redefine 12 **Q** Okay. <sup>13</sup> asbestos mineralogically. 13 A Like amosite is not a mineral at all. 14 For example, anthophyllite is actually 14 You know, that's gonna be grunerite, for the most <sup>15</sup> a solid solution series with anthophyllite at one 15 part. <sup>16</sup> end and ferro-anthophyllite at the other. But 16 Crocidolite is actually a sodium <sup>17</sup> ferro-anthophyllite is a mineral that forms amphibole called riebeckite. And so there's 18 asbestos, and yet it's not mentioned in the actinolite, tremolite, then those two and 19 original definition of asbestos. They just say anthophyllite. 20 **Q** <sup>20</sup> anthophyllite. Okay. And are you familiar with the 21 And, so, traditionally you've got --21 term "asbestiform"? <sup>22</sup> you've got chrysotile is your serpentine member 22 A Yes. 23 of the asbestos family, and then you've got the 23 **Q** And the asbestiform habit?

24 A

<sup>24</sup> five amphiboles. Well, okay. That's great.

(Nods affirmatively.)

Page D. 238023, Ph.D.				
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	Q Could you describe for me or can you	1	Doctor?	
2	define for me what asbestiform means?	2	THE WITNESS:	
	A We sort of talked about it in the	3	Yeah, I think so.	
	definition of asbestos. But asbestiform, again,	4	MR. FROST:	
	is related to a fibrous nature. And, from my	5	Q And with respect to the five	
	perspective, I've looked at a lot of asbestos in	6	amphiboles, you'd agree with me it's the	
	rock samples.	7	asbestiform or the fibrous variant that's defined	
8	Now, granted, the what you see in a	8	as, quote, asbestos, closed quote; correct?	
	rock sample is gonna be coarse-grained asbestos.	1 9	MS. O'DELL:	
	And, so, if you see a little band of asbestos,	10	Object to the form.	
1	generally the fibers will be perpendicular to the	11	A I'm sorry, Jack. Can you ask that	
	edges of that band, and if it if it's	12	MR. FROST:	
1	asbestos, the chances are you can rub your	13	Sure.	
1	fingernail across it and actually dislodge	14		
1	dislodge fibers. There are minerals that form		to the five amphiboles, it's the fibrous or	
	the same type of a same that you can the	16	asbestiform version of those amphiboles that is	
17	Q Uh-huh.	17	defined as, quote, asbestos, closed quote?	
18	A And they will not dislodge. And		MS. O'DELL:	
1	assuming that went see that went see the sees.	19	Object to the form.	
	But the two may look asbestiform. So the real		A That is correct. But there is some	
1	question is can you have an asbestiform mineral	21	the literature is inconsistent in that regard.	
	that is not asbestos? And the answer is yes.	22	There should if you've got if you've got	
23	Q onaj.		actinolite asbestos, it should always say	
24	VIDEOGRAPHER:	24	actinolite asbestos	
	Page 107		Page 109	
1	Can I go off the record really quickly?	1	MR. FROST:	
2	MR. FROST:	2	Q Okay.	
3	Sure.	3	A or fibrous actinolite. There	
4	VIDEOGRAPHER:	4	should there should be a modifier if you're	
5	The time is 10:42 a.m.	5	going to to go from the mineral species by	
6	(OFF THE RECORD.)	6	itself into the realm of asbestos.	
7	VIDEOGRAPHER:	7	Q And that's sort of the question I was	
8	We're back on the record. The time is	8	getting to. There's a difference between	
9	10:42 a.m.	9	And we'll use actinolite, which you	
10	MR. FROST:	10	just used.	
11	Q And, so, we're talking about the	11	There's actinolite, which isn't	
12	definition of asbestos. Chrysotile, I believe,	12	necessarily asbestos, and then there's	
13	is always asbestiform. That's the asbestiform	13	asbestiform or fibrous actinolite, which is.	
14	serpentine?	14	Correct?	
15	A If you if you actually apply a	15	A Correct.	
16	minimum length to the fiber to chrysotile, then	16	Q And you can have one without the other;	
17	it isn't always asbestiform.	17	right?	
18	Q Oh, okay.	18	A Correct.	
19		19	MS. O'DELL:	
20	and then, you know, it's out the door as	20	Object to the form.	
21	asbestos.	21	MR. FROST:	
22	• • • • • • • • • • • • • • • • • • •	22	Q And do you know what a cleavage	
	MS. O'DELL:		fragment is? Is that a term you're familiar	
24	Are you finished were you finished,	24	with?	

Philip 08/22/24 Page 30 of 130 Page 110 Page 112 <sup>1</sup> A Correct. It is. 1 Well... 2 **O** 2 **Q** Okay. Can you please explain to me So how would you go about determining <sup>3</sup> what a cleavage fragment is? <sup>3</sup> whether a population of particles are cleavage <sup>4</sup> fragments versus asbestiform fibers? A cleavage fragment, according to the <sup>5</sup> American Geological Institute, their definition <sup>5</sup> MS. O'DELL: <sup>6</sup> is wrong, and I can tell you why. But their Object to the form. 7 A <sup>7</sup> definition is that it's a crystal particle that I -- I would hit it with the polarizing 8 is bounded by cleavage surfaces. And since not 8 microscope first so -- because that allows you to look at a lot of -- a lot of grains. <sup>9</sup> all crystals have three directions of cleavage <sup>10</sup> that would give you cleavage on every side, that You know, one of the problems with this <sup>11</sup> can't be right. 11 is that as you -- as you look at finer and finer But, in essence, it's a -- a broken 12 12 grain material, your ability to look at large 13 crystal fragment that is bounded at least 13 numbers of grains diminishes. I like to pop a <sup>14</sup> partially by planes of breakage rather than 14 sample, ground it up not too fine but grind it up, put it in an immersion oil and put it under a <sup>15</sup> crystallization. 16 O Would you agree with me that the petrographic microscope and see what I see. <sup>17</sup> difference between a cleavage fragment and an 17 I would also like to have a thin 18 asbestiform fiber is the habit in which it grew, section of that same sample, because sometimes in 19 the way in which it developed? a thin section you can see that there is no <sup>20</sup> MS. O'DELL: asbestiform thing there at all, and yet you may 21 end up with a suspect sample. On the other hand, Object to the form. 22 A Let me answer that this way. The just the opposite can happen. 23 <sup>23</sup> answer is yes and no. It's possible to have an So I think that the idea is that you've <sup>24</sup> amphibole that is truly an asbestos fiber. And 24 got to start large and -- and work down if Page 111 Page 113 <sup>1</sup> because of the cleavage in amphiboles, you can <sup>1</sup> it's -- if it's required. <sup>2</sup> take that original asbestos fiber and break it up <sup>2</sup> MR. FROST: <sup>3</sup> into a cleavage fragment. And, so, therein is 3 O Okay. Is a good way to summarize that 4 the problem. <sup>4</sup> that you have to look at the population of You can certainly have cleavage <sup>5</sup> particles as a whole? You can't just necessarily 6 fragments that were derived from a large single <sup>6</sup> focus in on one or two individual particles to <sup>7</sup> crystal that are prismatic, they look like <sup>7</sup> make a call? 8 needles, and they're not related to an asbestos 8 MS. O'DELL: <sup>9</sup> particle. But you can have something that looks Objection, to the degree "particles" is <sup>10</sup> vague. 10 exactly the same that is. And, so, that's a --11 A 11 it's a very tough call. Yeah. I -- I'm not saying that. I'm 12 MR. FROST: not saying that if you -- if you look at a small <sup>13</sup> population, see a chrysotile particle, that you 13 O Are there any properties that you would 14 use to identify the difference between a cleavage 14 need to then go back and look at a 5-ton rock <sup>15</sup> fragment and an asbestiform fiber? sample just to make sure it was chrysotile. You 16 A With respect to chrysotile, yes, of <sup>16</sup> don't have to do that. But if you're worried <sup>17</sup> course. With respect to amphiboles, your value about the presence or absence, period, then you <sup>18</sup> there is to look at lots and lots of material. need to look at a lot of samples. 19 MR. FROST:

- 22 these cleavage fragments, which are always gonna
- <sup>23</sup> be smaller, are derived from a fiber. I mean, I
- 24 think that you really are --

Okay. You can't just look at one, you

<sup>20</sup> **Q** 

<sup>21</sup> know --

22 Are you familiar with the term <sup>23</sup> "elongated mineral particle"?

24 A Sure.

5 O

10 A

11 **O** 

<sup>12</sup> A

13 O

15 A

16 **O** 

17

20

asbestos?

14 in your job?

No.

No.

MS. O'DELL:

- 1 O So you can't just look at one EMP and
- <sup>2</sup> make a determination as to whether or not that's
- 3 asbestos?
- 4 MS. O'DELL:
- 5 Object to the form.
- One particle? You might be able to. 6 A
- <sup>7</sup> Depends on the particle.
- 8 MR. FROST:
- And what types of things would you have
- 10 to look for in that particular particle?
- 11 A Well, are we talking about amphibole or
- <sup>12</sup> chrysotile?
- 13 **Q** I was going to say, I understand
- <sup>14</sup> amphibole is different because amphibole has a
- <sup>15</sup> lot of its own characteristics.
- 16 A All right.
- 17 O Let me rephrase my question. We'll --
- 18 let's focus on the amphiboles, because I think
- 19 that's a little more difficult.
- 20 A Yeah. It is. Yeah, the amphiboles are
- 21 tough.
- 22 And your question had to do with an
- <sup>23</sup> elongated particle, is it asbestiform or not?
- 24 **O** That's correct.

- 21 MR. FROST:
  - <sup>22</sup> O TEM or SEM images.

any experience with doing?

Sometimes.

Sometimes?

- 23 A I mean, I've looked at some. But
- 24 that's not -- that's not part and parcel of what

Are you talking about TEM?

<sup>1</sup> it would have a tendency to break. But, still,

<sup>2</sup> it's not hard to find amphibole grains that are <sup>3</sup> bent. And when they are, then, you know, then

<sup>6</sup> know, sort of isolated particles under TEM, is

<sup>7</sup> that the kind of thing that you could look at and

go, yeah, that's cleavage fragment; yeah, that's

If I were to show you pictures of, you

Sure. Sometimes, yes; sometimes, no.

Is that something that you routinely do

Okay. Is it something that you have

<sup>4</sup> you're beginning to satisfy the definition.

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- The -- I'm not sure that without seeing
- <sup>2</sup> the sample from which the particle came that you
- <sup>3</sup> can make a real good call there unless you -- you
- 4 have an entire particle. Now, some of these
- <sup>5</sup> particles will not be broken at the ends and you
- <sup>6</sup> can actually see the termination of the grain.
- If it is non-asbestiform, the
- 8 termination will normally be a single oblique
- plane to the direction of elongation.
- If it's -- if it's an asbestiform 10
- 11 fragment, sometimes these fragments taper to a
- point. And that's pretty much of a giveaway that
- 13 you're looking at a single crystallized fiber.
- 14 Another thing you might do is see
- <sup>15</sup> whether your population has bent fibers in it.
- <sup>16</sup> Okay? Many times that's a dead giveaway.
- That has to go with -- I think you --
- 18 flexibility or tensile strength are some of the
- <sup>19</sup> aspects you had listed earlier?
- 20 A Right.
- 21 And with amphiboles, you have to be
- <sup>22</sup> careful because there is a cleavage plane
- <sup>23</sup> direction that is perpendicular to the
- <sup>24</sup> elongation. So if you try to bend an amphibole,

Page 117 <sup>1</sup> I normally do.

- Okay. You're not an expert in <sup>3</sup> reviewing TEM or SEM images?
- I wouldn't think I was. 4 A
- Do you have any opinion as to whether
- 6 or not surface chemistries of asbestiform or
- <sup>7</sup> non- -- and non-asbestiform particles are
- 8 different?
- 9 A Surface chemistry?
- 10 O
- 11 A I'm not sure I understand how the
- surface chemistry's gonna be greatly different
- 13 from the chemistry through the grain.
- Okay. So that's -- that's not
- something you have an opinion about, about
- <sup>16</sup> surface chemistry?
- 17 A I think that -- I'm not sure -- I'm not
- sure what you're really asking.
- The -- if you're gonna do, like, EDAX,
- 20 how far into the grain do you think you're really
- analyzing? Is that what you're talking about
- <sup>22</sup> when you say "surface"? Because you may not be
- 23 getting an analysis that's gonna be
- <sup>24</sup> representative of the grain as a whole on --

Page 120 Page 118 <sup>1</sup> on -- on a lot of these techniques. You're --1 MR. FROST: <sup>2</sup> you're -- the penetrating power may not be that 2 **O** So you'd agree with me that if you're <sup>3</sup> great. 3 looking at a small population of fibers or you're 4 looking at -- well, not fibers, but if you're But I don't think that -- I don't think 5 that I would be greatly concerned about surface <sup>5</sup> looking at a small population of particles or 6 looking at a single particle, a lot of times the 6 chemistry versus chemistry five -- five or six <sup>7</sup> microns into a grain. I'm not sure there should <sup>7</sup> call as to whether or not it's cleavage or, 8 be any big difference unless you're -- there's a 8 you know, prismatic versus asbestiform fiber <sup>9</sup> coating of some sort that -- that maybe is, <sup>9</sup> is -- is subjective unless you have a larger 10 population to review? 10 you know, has been applied. 11 MS. O'DELL: 11 You know, you have to -- to coat some 12 of these samples, anyway, if you're -- if you're 12 Excuse me. Object to the form. 13 doing SEM work. 13 A It can be. I think that -- that it's 14 14 necessary to begin to go back and look at the So, I mean, you know, you get carbon. 15 In fact, I'm sure that you've looked at a lot of original definitions and begin to try to apply 16 these analyses. And if you look at the analyses, 16 them to that particular grain. 17 you'll see that they'll have silica. They'll 17 MR. FROST: 18 mark it, and they'll mark it SI. And they'll 18 O Uh-huh. 19 have magnesium, and they'll mark it MG. And then 19 A And -- and sometimes it's possible. <sup>20</sup> about here, there'll be iron. And then just 20 Sometimes it may not be. And that's why it's 21 beyond iron, there'll be a strong peak. And they 21 important to look at many, many, many, many, many 22 never identify it, and yet it's there. It's part 22 samples, many grains. <sup>23</sup> of their analysis. You know what it is? Copper. 23 **O** Okay. And I take it you have no 24 That's the copper peak from the sample. So they 24 opinion regarding the potential health risks Page 119 Page 121 1 just ignore that. <sup>1</sup> associated with a cleavage fragment versus an And, so -- so you have to -- you have <sup>2</sup> asbestiform --<sup>3</sup> to really take a look at the technique that's 3 **A** No. 4 being used if you want to talk about surface 4 O -- mineral? <sup>5</sup> chemistry versus total chemistry. 5 A No. 6 O And do you have an opinion as to Turn to page -- still on 4 of your <sup>7</sup> whether or not -- I'll call it the cleavage <sup>7</sup> report. It's the -- the remainder of that <sup>8</sup> fragments versus asbestiform fibers have 8 sentence, "Talc deposits can contain asbestos, 9 different surface features and different surface <sup>9</sup> asbestiform minerals, or minerals containing 10 identifiable markers? <sup>10</sup> elevated levels of heavy metals and arsenic, 11 MS. O'DELL: 11 making their ores potentially unsafe. The 12 Object to form. <sup>12</sup> distribution of asbestos and/or these undesirable 13 A I think that -- that it's possible to <sup>13</sup> elements can be quite irregular within individual 14 identify cleavage surfaces under some situations, <sup>14</sup> talc deposits themselves or in the immediately because they don't have to be perfectly planar. adjacent host rocks." 16 You can have steps where -- where the cleavage 16 Did I read that right? <sup>17</sup> fragment is actually peeling away from the 17 A Sure. 18 adjacent fragment that results when the two 18 0 So you -- you'll agree with me that --Should I -- is it right to call the ore 19 separate. 19 20 The problem with this is that that can <sup>20</sup> the economic mineral, you know, in a talc 21 happen in a fiber. I mean, an amphibole fiber, 21 deposit? 22 if you can come up with a hammer small enough and 22 MS. O'DELL: <sup>23</sup> hit it, it's gonna break into cleavage fragments. 23 Object to the form. 24 A 24 So... Let -- let's call it the material that

Page 124 Page 122 <sup>1</sup> you intend to extract and mill. 1 Object to the form. I mean, you could have things that you <sup>2</sup> MR. FROST: 2 A Okay. You'd agree with me that the <sup>3</sup> mentioned that don't even exist in some areas. <sup>4</sup> shape, size, and distribution of that, you know, <sup>4</sup> MR. FROST: <sup>5</sup> area of mineral you intend to extract as ore can 5 O Exactly. <sup>6</sup> be different and irregular? So, of course. 6 A <sup>7</sup> A 7 O Okay. And would you also generally Very. 8 agree with me that the -- the areas of talc that 8 O And they're different for every <sup>9</sup> are mined for use in cosmetic talcum powder, <sup>9</sup> deposit; right? 10 you know, are much purer than, you know, sort of 10 A Very. Yes, sure. It's not always gonna be the same 11 the average deposit of talc you might find 11 **O** <sup>12</sup> shape. It's not always gonna be the same size. 12 somewhere in the world? 13 A That's why they have mining engineers. 13 A Are you --14 **O** And you'd agree with me that each 14 MS. O'DELL: <sup>15</sup> mineral deposit is usually complex? 15 Object to the form. 16 A 16 A Yes. Are you restricting this to the -- to <sup>17</sup> MS. O'DELL: <sup>17</sup> the US? 18 Object to the form. 18 MR. FROST: 19 MR. FROST: 19 O I don't have to. I can ask it --Is -- is your answer different if it's You know, and they have complex and 20 <sup>21</sup> different geological histories? 21 US versus --22 A 22 MS. O'DELL: It is. 23 Do you mean that specific mineral 23 **O** -- somewhere else? <sup>24</sup> deposits? 24 A Yes. Page 123 Page 125 1 O Okay. So restricted it to the US. So <sup>1</sup> MR. FROST: <sup>2</sup> what's your opinion there? Just in -- just in general. Well, <sup>3</sup> we'll narrow it down to talc deposits. Then with -- with respect to the US, 4 yeah, it's a higher quality talc. 4 MS. O'DELL: With the world of talc or world of Okay. And why is that different when 6 you then add in worldwide talc deposits? <sup>6</sup> minerals. <sup>7</sup> MR. FROST: I think that there are examples of 8 impure talcs being used in -- in powders that No. I was going to say... We'll narrow it down to the world of <sup>9</sup> have originated from deposits in other countries 9 O <sup>10</sup> talc deposits. 10 that, you know, that never make it to the US. 11 But you see the product analyzed and, you know, You'd agree with me that, you know, <sup>12</sup> talc deposits can have complex and different 12 my -- oh, my God, it's 99 percent asbestos, and <sup>13</sup> geological history? 13 it's on, you know, every newspaper in the world, 14 but it isn't talc that was mined here and it <sup>14</sup> MS. O'DELL: 15 15 isn't talc that was sold in the US. Object to the form. Sure. If you're looking at talc on a 16 **O** Okay. I see. And, then, actually, 17 now, I really appreciate the difference. worldwide basis, of course. <sup>18</sup> MR. FROST: So with respect to the deposits that Yeah. And, you know, you'll have 19 were used by Johnson & Johnson, you know, say, to <sup>20</sup> folding and faulting and you'll have different 20 source the talc for its talcum powder products, <sup>21</sup> geological circumstances that, you know, may 21 you know, you'd agree those come from deposits <sup>22</sup> affect a localized area that wouldn't affect 22 that tend to be higher in purity and, you know, <sup>23</sup> somewhere else? <sup>23</sup> more monomineralic than, say, other deposits that 24 exist? <sup>24</sup> MS. O'DELL:

Page 34 of 130 Page 128 Page 126 <sup>1</sup> MS. O'DELL: <sup>1</sup> accessory minerals in every deposit. Is that a 2 <sup>2</sup> fair statement? Object to the form. Yeah. You can't -- you can't say that, 3 MS. O'DELL: 3 **A** 4 simply because the Vermont talc deposits are not Are you talking about the same <sup>5</sup> monomineralic. They actually mine ore that's <sup>5</sup> geographic area or different geographic area for 6 talc plus carbonate. 6 the deposit? <sup>7</sup> MR. FROST: <sup>7</sup> MR. FROST: 8 Q 8 O Just in -- in general, you know, for Okav. They do it on purpose. talc deposits. You know, we can limit it, let's Α 10 So that's not monomineralic. <sup>10</sup> say, for example, in the United States, along the <sup>11</sup> ultramafic belt. 11 O I see. 12 So I guess a better way to ask it, 12 MS. O'DELL: 13 you know, the -- the talcum powder -- the 13 Object to the form. 14 deposits that were used to source the talcum 14 A In the ultramafic belt, you can expect 15 powder for Johnson & Johnson, they tended to be to find certain minerals just by virtue of -- of <sup>16</sup> higher percentages of talc and sort of more pure 16 how the ultramafic bodies themselves got to where <sup>17</sup> talc deposits than other talc deposits that exist they are, how they were altered, what -- what 18 throughout the United States, for example? metamorphic grade they occur at. 19 MS. O'DELL: And, interestingly enough, the 20 Object to the form. 20 chemistry of the rocks that surround them 21 A 21 apparently have a little bit to do with what --No, that's not right. 22 what you're gonna see. 22 MR. FROST: Okay. So you don't believe that, 23 MR. FROST: 23 **O** <sup>24</sup> you know, companies try to find talc deposits 24 O Okay. You'd agree with me, just Page 127 Page 129 <sup>1</sup> with a higher concentration of talc to use for because you find actinolite in one deposit <sup>2</sup> cosmetic talcum powder? <sup>2</sup> doesn't mean actinolite is gonna be in every <sup>3</sup> MS. O'DELL: <sup>3</sup> single talc deposit along the belt; correct? 4 Object to the form. My guess is that, if you want to use 5 A Not necessarily. I think that -- that <sup>5</sup> actinolite as an example, you can pick a talc <sup>6</sup> with respect to the Vermont talc deposits, <sup>6</sup> deposit at random, we can go and spend enough <sup>7</sup> probably the best talc in them is the talc that <sup>7</sup> time to find an actinolite grain. 8 is associated with magnesite. And, so --8 Q Okav. And, in fact, that's why the West 9 A I mean, actinolite is so common. I <sup>10</sup> Windsor mill was so important. It -- that mill 10 mean, it's -- it's everywhere. All right. How about tremolite or <sup>11</sup> was built to handle talc magnesite ore. Because 12 once you get the magnesite out, then you have a <sup>12</sup> anthophyllite? <sup>13</sup> relatively nice talc product. But it doesn't 13 A Well, tremolite -- here's -- here's the <sup>14</sup> start out being pure talc. 14 thing with tremolite. Tremolite has calcium in <sup>15</sup> MR. FROST: 15 it, and talc doesn't. And, so, if -- if there's <sup>16</sup> calcium in the -- the original rock that's being 16 O Okay. Would you also agree with me that when you're looking at sort of talc deposits altered, the calcium has got to have somewhere to go. And tremolite is a very easy place to -- to <sup>18</sup> in general, just because you find some --

<sup>20</sup> "accessory minerals"?

21 A Sure.

22 **O** Okay. Just because you find some

<sup>23</sup> accessory minerals in one deposit doesn't mean

<sup>24</sup> you're gonna find the same compilation of

19 store calcium. And, so, it's not -- it's not

<sup>20</sup> unexpected to see tremolite.

21 You certainly see tremolite in the talc <sup>22</sup> deposits that are formed from carbonate rocks

<sup>23</sup> because a lot of those carbonates are dolomites

plus calcium carbonate-rich limestone. So

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- <sup>1</sup> they're -- they're interbedded.
- And, so, you -- you do tend to see
- 3 tremolite in those. But you've got to
- <sup>4</sup> accommodate calcium somehow, and that's -- that's
- <sup>5</sup> a common way.
- 6 Q Okay. But, so you'd agree with me,
- <sup>7</sup> then, that not every deposit of talc is gonna
- 8 have tremolite in it, because they're not all
- <sup>9</sup> gonna be comprised of the same underlying
- 10 original materials before metamorphosis; right?
- 11 MS. O'DELL:
- Object to the form.
- 13 A I'm -- I'm not gonna say that they all
- 14 don't --
- Talc deposits can be -- you know,
- <sup>16</sup> they're pretty large. And if you found a
- 17 little -- you know, these are little, rootless
- 18 ultramafic bodies. Some of them are no bigger
- 19 than this (indicating). And you might find a
- 20 little teeny one like that, and there won't be a
- 21 tremolite grain within 50 feet of it.
- But in terms of an economic talc
- <sup>23</sup> deposit, I would be shocked if you couldn't go
- <sup>24</sup> and station somebody at the mine the day it

- <sup>1</sup> instance, I think the Johnson mine has had
- <sup>2</sup> cobaltite reported from it, and -- and we don't
- <sup>3</sup> see any evidence of cobaltite at any of the other

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- <sup>4</sup> talc deposits.
- And, so, from that standpoint, sure,
- <sup>6</sup> there -- there can be a difference in the suite
- <sup>7</sup> of accessory minerals.
- But if you're gonna talk about the
- <sup>9</sup> common rock-forming minerals, geez, you know,
- those things show up all over the place.
- I mean, if you look at the black wall,
- 12 you know, most of these deposits have got a -- a
- 13 rind around them; and the black wall, by
- <sup>14</sup> definition, has amphiboles in it. And based on
- the chemistry of these things, they're bound to
- <sup>16</sup> be actinolite.
- 17 MR. FROST:
- Okay. You'd agree with me that,
- <sup>19</sup> depending at the pressures, temperature, and the
- 20 time in which they form, what you're gonna find
- <sup>21</sup> associated with each, you know, mineable talc
- <sup>22</sup> deposit's gonna be different?
- 23 MS. O'DELL:
- Object to the form. Asked and

- 1 opened and -- and have them do nothing but search
- <sup>2</sup> for tremolite every day, and sometime during the
- <sup>3</sup> operation of that mine they're gonna come in with
- <sup>4</sup> a piece of tremolite. I'd be surprised if
- <sup>5</sup> that -- if that wouldn't happen.
- 6 MR. FROST:
- <sup>7</sup> Q So it's your position, sitting here as
- <sup>8</sup> a scientist, that every single talc deposit in,
- <sup>9</sup> say, the ultramafic belt will have the exact same
- 10 compilation of accessory minerals associated --
- <sup>11</sup> A No.
- <sup>12</sup> **Q** -- with it?
- <sup>13</sup> A No. I'm not saying that.
- 14 MS. O'DELL:
- Excuse me. Object to the form.
- <sup>16</sup> Misstates his testimony.
- <sup>17</sup> MR. FROST:
- Okay. So you agree with me that each
- 19 particular deposit will have its own particular
- <sup>20</sup> set of potential accessory minerals; right?
- 21 MS. O'DELL:
- Object to the form.
- <sup>23</sup> A If we're gonna be very broad in our
- <sup>24</sup> definition of "accessory minerals." For

- <sup>1</sup> answered.
- Yeah. I -- I -- the way -- the way
- <sup>3</sup> that you stated that, I -- I don't think I would
- <sup>4</sup> exactly agree with you on that.
- <sup>5</sup> MR. FROST:
- 6 Q You wouldn't agree with me that you
- <sup>7</sup> have to look at the individual formation of each
- 8 deposit to determine, you know, what is or is not
  - going to be in it?
- <sup>10</sup> A When you say "the formation," you're
- 11 talking about the -- the genesis, not the rock
- 12 formation?
- Yes. I'm talking about the genesis,
- 14 the actual, you know --
- <sup>15</sup> A Yeah.
- <sup>16</sup> Q -- time, heat, pressure of
- <sup>17</sup> metamorphism.
- <sup>18</sup> A The conditions of formation certainly
- 19 control the mineralogy of any rock.
- Okay. And the conditions of formation,
- 21 you know, can be extremely localized, correct,
- <sup>22</sup> depending on what the -- what the original rock
- 23 was?
- 24 MS. O'DELL:

Phin 08/22/24 Page 36 of 130 Page 136 Page 134 Object to the form. <sup>1</sup> unit. The -- the most recent publications spell <sup>2</sup> it out pretty clearly that -- that that is a -- a

- 1 2 A It certainly can. There seem to be
- 3 some -- some consistent threads that run through <sup>3</sup> sequence of rocks that contain carbonates, and
- 4 these. But if you've looked at any of the mine 4 those carbonates are deformed and they're -- they 5 maps, you've seen that some of these deposits are <sup>5</sup> have been originally metamorphosed at apparently
- 6 certainly cut by faults, and -- and some of these 6 high grade, because they're garnets in the -- in
- <sup>7</sup> faults actually control the disposition of some <sup>7</sup> the adjacent schists. And garnets are a mineral

14

- <sup>8</sup> of these accessory minerals. 8 that -- that actually signals the beginning of a
- 9 MR. FROST:
- 10 **Q** Uh-huh.
- 11 A So if it's not like faulting, then,
- 12 you know, then you might not see a certain
- 13 mineral.
- 14 Some of these also had lamprophyre
- 15 dikes in them. And those dikes, they have their
- 16 own mineral assemblage. But -- but since it's
- <sup>17</sup> almost impossible to mine some of the talc
- <sup>18</sup> without incorporating some of the lamprophyre,
- 19 then -- then you've got to look at the
- <sup>20</sup> lamprophyre.
- Okay. You'd agree with me, you know, 21 **O**
- <sup>22</sup> depending on what the surrounding rock was of the
- 23 serpentinite, when it was formed, the temperature
- <sup>24</sup> and pressure at which it was formed, you know,
- 22 that's what you're talking about is because it's

Okay. So that's what you're talking --

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23 hosted from a different type of -- of rock?

certain level of regional metamorphism.

11 you open up -- it's not really a Pandora's box,

lot of more complicated mineralogy.

that statement. If you -- if you go to the

16 literature and read about the accessory minerals

some minerals mentioned that -- that you don't

see attributed to some of the stuff in Vermont,

there in the Italian talc deposits, you'll see

but you have the opportunity for a lot of -- a

And -- and that was what I meant in

When you hit garnet grade metamorphism,

- It's a different type -- it's a --
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- <sup>1</sup> whether or not it went through multiple stages of
- <sup>2</sup> metamorphosis, all of this would, you know,
- <sup>3</sup> change what might be in that particular localized
- 4 deposit?
- <sup>5</sup> MS. O'DELL:
- Object to the form. 6
- 7 A In terms of accessory minerals, it
- 8 might.
- 9 MR. FROST:
- 10 O Okay. Okay. Page 4, go to section 1,
- 11 "Chronology of Talc Sources." In that first
- <sup>12</sup> paragraph, we're talking about the Italian mine
- 13 in -- in this: correct? The Fontane mine?
- 14 A Sure.
- 15 O Okay. And down towards the bottom of
- 16 that paragraph you state, "Deposits from this
- 17 region are known to be mineralogically complex,
- <sup>18</sup> particularly with respect to their host
- 19 metamorphics"?
- 20 A Right.
- 21 **O** Can you explain to me how the
- <sup>22</sup> particular deposit at the Fontane mine was
- 23 formed?
- 24 A Yeah. That -- that is a carbonate

- <sup>1</sup> those are different type deposits.
- Okay. And you'd agree with me that,
- <sup>3</sup> you know, the literature basically says that the
- <sup>4</sup> mineralogical composition was effectively stable
- <sup>5</sup> through its formation in the Fontane area or the
- <sup>6</sup> Val Chisone area?
- <sup>7</sup> MS. O'DELL:

<sup>20</sup> for instance.

21 **Q** 

- Object to the form.
- <sup>9</sup> MR. FROST:
- 10 O And remained stable throughout
- <sup>11</sup> subsequent metamorphism?
- 12 MS. O'DELL:
- 13 Object to the form.
- 14 A I think I know what you're asking.
- 15 Are you asking about the talc remaining
- 16 stable?
- MR. FROST:
- 18 O That's correct.
- 19 A That's probably right.
- 20 **Q** Okay. And, at the end of that
- <sup>21</sup> paragraph, you note, "The deposits were often
- <sup>22</sup> small and mined by underground methods."
- 23 A Yes.
- 24 **Q** What do you mean by "small"?

Page 138 <sup>1</sup> A The -- the -- some of the earlier

- <sup>2</sup> descriptions of the -- the Val Chisone district's
- <sup>3</sup> deposits show them to be lens-like within the
- 4 host carbonate-bearing strata. And, so, if
- <sup>5</sup> you've -- if you've ever seen a -- a
- <sup>6</sup> cross-section of the Germanasca Valley, you've
- <sup>7</sup> got a valley, and there are mines on both sides
- 8 of it.
- 9 Q Uh-huh.
- 10 A And at the Fontane mine, you've got --
- <sup>11</sup> you've got openings on one side and the other,
- <sup>12</sup> and they are all accumulated into material that's
- 13 called Fontane mine. And, yet, they're not
- 14 really a mine that's connected, and yet they're
- <sup>15</sup> all in the same stratigraphic horizon.
- If you were to go up or down the
- <sup>17</sup> valley -- let's say up the valley -- you're
- <sup>18</sup> following the stratigraphy. Okay? The valley
- 19 has actually cut through the band of rocks that
- 20 contain the talc. And Fontane is in -- is,
- <sup>21</sup> you know, in the sides of the valley.
- If you go up the valley, you're still
- <sup>23</sup> following that same bed of rock, and there are
- <sup>24</sup> lens-like occurrences of talc that have been
- - Page 139
- <sup>1</sup> mined. And, so, those would be much smaller
- <sup>2</sup> mines than the Fontane. The Fontane's a big
- <sup>3</sup> mine.
- 4 O Okay. That's what I was gonna get at.
- <sup>5</sup> That statement doesn't necessarily, you know --
- <sup>6</sup> you'd agree with me that the deposit at Fontane
- <sup>7</sup> mine is actually considered to be a fairly large
- 8 talc deposit?
- 9 A It's big. Vertically, you're looking
- <sup>10</sup> at multiple levels that -- I can't remember
- <sup>11</sup> exactly, but you're looking at least -- at least
- <sup>12</sup> 400 feet in terms of vertical extent in that
- 13 mine. And I take that to mean that there are
- <sup>14</sup> multiple ore horizons, which would be
- <sup>15</sup> interesting. I don't think you're gonna find a
- <sup>16</sup> talc deposit that's 400 feet thick. I mean, I
- <sup>17</sup> don't think that's happening.
- 18 So my interpretation of the
- <sup>19</sup> cross-section I've seen is that there are
- <sup>20</sup> multiple horizons within the rock unit that
- <sup>21</sup> contains the -- the talc.
- 22 **O** Okay. So the statement you have, you
- 23 know, that the deposits were often small, that's
- <sup>24</sup> really more a generalization for the Val Chisone

- <sup>1</sup> Valley.
- 2 A Yes.
- Not necessarily the Fontane deposit. 3 **Q**
- Right. Right. 4 A
- 5 O And have you ever read the work by
- <sup>6</sup> Sandrone and Zuchetti?
- 7 A I don't recognize the names. It
- 8 doesn't mean I haven't read it.
- 9 **Q** Okay. And --
- 10 A Can I -- can I continue with my answer
- 11 to that last question?
- 12 **Q** Sure.
- 13 A The reason I mentioned the small mines,
- 14 there -- there is an issue with -- with -- with
- 15 talc mining as well as gold mining. If you have
- <sup>16</sup> a mineral deposit that -- that has value on
- paper, you have got to convert that mineral
- deposit into somebody giving you a check for the
  - ore or the finished product.
- 20 And, so, what happens if you're in the
- <sup>21</sup> Germanasca Valley and you've got a very small,
- <sup>22</sup> very nice grade, very nice talc deposit? You've
- got to have some way to mill that.
- Well, suppose there's only one mill in
  - Page 141

Page 140

- <sup>1</sup> the whole region? And, so, what do you do? You
- <sup>2</sup> take some samples, you go to the guy that owns
- 3 the mill and you say, "Um, I've got all this
- 4 really good talc I'd like to -- I've got to do
- 5 something with it. Will you buy it?" And if
- 6 they like it, they say, "Sure," and it just goes
- <sup>7</sup> right in with the product coming labeled Val
- <sup>8</sup> Chisone.
- 9 O And --
- 10 A Because it's the only mill in the
- 11 region. This happens all over the world. People
- 12 have smaller deposits, and they feed mills that
- <sup>13</sup> are actually being run to process ore from the
- 14 district's main mine.
- 15 O And, sitting here, you have no evidence
- 16 to show that that actually happened --
- 17 A
- 18 **Q** -- with respect to the Fontane?
- 19 A I'm just pointing out that that is a
- <sup>20</sup> very common characteristic --
- 21 **Q** Okay.
- 22 A -- of mining in general.
- But, without speculating, you can't 23 **Q**
- 24 tell me that talc ore used for talcum powder

		<u>)32</u>	
	Page 142		Page 144
	sourced by Johnson & Johnson came from anywhere	1	A I think that
2	other than the Fontane mine; correct?	2	MS. O'DELL:
3	MS. O'DELL:	3	Object to the form.
4	Object to the form.	4	A Right. I think today it's a family or
5	A I'm not sure that that all the	5	it was a family-operated enterprise.
6	documents actually say that. I think that some	6	MR. FROST:
7	of them are careful or, let's just say I think	7	Q Uh-huh.
8	some of them don't actually name the Fontane mine	8	A And, so, they own the Fontane mine and,
9	by name. They they just talk about the	9	so, what they sell is gonna be attributed to the
10	district or the the the valley, the Chisone	10	Fontane mine.
11	Valley. And I think that it's	11	Q Okay. Turn to page 5. The first full
12	This is sort of an interesting thing,	12	sentence on the page starts, "The first
13	because it may be that that the ore that's	13	comprehensive overview of Vermont's talc deposits
14	processed from the smaller occurrences might be	14	were given by Chidester, Billings, and Cady in
15	very, very, very high grade or it wouldn't have	15	1951"
16	been accepted at the mill.	16	A Right.
17	MR. FROST:	17	Q "and a review of the ultramafic
18	Q But you have no evidence to show	18	province of Vermont including its
19	A No.	19	serpentinite-associated talc and asbestos
20	Q one way or the other?	20	deposits was published in Ratté in 1982."
21		21	Did I read that right?
22	small mines. And you don't you don't have a	22	A I think you did. I'm not sure I worded
23	small mine if there's nowhere to process the ore.	23	it right, but
24	-		Q And then it continues, "The
	Page 143		Page 145
	A Well, it's in the literature.	1	consanguinity of talc and asbestos in such
2	A Well, it's in the literature.  Q The literature?	2	consanguinity of talc and asbestos in such deposits is further supported by the numerous
2	<ul><li>A Well, it's in the literature.</li><li>Q The literature?</li><li>A Yeah.</li></ul>	3	consanguinity of talc and asbestos in such deposits is further supported by the numerous descriptions of both talc and asbestos in
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1	- Paperd: 2380		Ph.D. Ph.D.
1	Page 146		Page 148
	specifically turning your attention to page 33.	1	A Back to back.
	I believe it's 33, 34.	2	Q And if you look down at the section
3	A My page numbers are	3	called "Talc in Soapstones," you'll note on the
4		4	second paragraph
5	Front and back, I believe.	5	A Right. Right.
6	A Yeah. I've got one with with one	6	Q it says, "The talc-soapstone
7	page number on it.	7	mineralization coincide with the described above
8	Okay. I've got 33. Have you	8	for asbestos and is included within the
9	highlighted it in yellow?	9	ultramafic process."
10		10	Correct?
		11	A Right.
		12	-
13	11 Okuy.		Q So he's referencing specifically with
	Q I didn't inglinight it, out	1	the talc-soapstone mineralization that, you know, it relates to the asbestos discussed above.
14	Ti Okay.		
15	Q it's the only copy I had.		Right?
16	Is yours not highlighted?	16	A Right.
17	MS. O'DELL:	17	Q If you turn to the top of page 34,
18	No.		Ratté states that the talc mines of Windsor
19	MR. FROST:		Minerals, Inc., in Hammondsville and Ludlow, a
20	On page 33?	1	Vermont Talc Company mine in Andover, and the
21	MS. O'DELL:	1	Vermont Soapstone Company Mine in Chester are
22	No.		included in the southern talc mining district."
23	MR. FROST:	23	Correct?
24	Huh. All right. Do you want to	24	A That's what he says, sure.
	Page 147		Page 149
1	mark maybe we'll mark that one, then. It	1	Q And he's distinguishing the
	doesn't really unless you care. I don't I		talc-soapstone mineralization that he coincides
3	and the second s		with the asbestos from the southern what does
4	MS. O'DELL:	4	he call it? talc mining district. Correct?
5	If it's that's fine if you if	1	MS. O'DELL:
6	you've marked that one.	6	Object to the form.
7	MR. FROST:	7	A I'm not sure that that's what he's
8	Yeah. I was going to say, I mean, it	8	saying. But I'll accept that.
9	actually speeds things up	9	MR. FROST:
10	MS. O'DELL:	10	Q Yeah. Okay.
		1	
	MIV hone	11	•
11	My hope	11	A But but, before we go on, I'd like
11 12	MR. FROST:	12	A But but, before we go on, I'd like to point out what he says in the second full
11 12 13	MR. FROST: if I point him in the right place.	12 13	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.
11 12 13 14	MR. FROST: if I point him in the right place. MS. O'DELL:	12 13 14	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?
11 12 13 14 15	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine.	12 13 14 15	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.
11 12 13 14 15	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST:	12 13 14 15 16	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page. Q Okay. On which page? A 34. Q 34? Okay.
11 12 13 14 15 16	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the	12 13 14 15 16 17	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.  Q 34? Okay.  A He warns about the the the
11 12 13 14 15 16 17	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33,	12 13 14 15 16 17 18	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page. Q Okay. On which page? A 34. Q 34? Okay. A He warns about the the the consequences of the occurrence of these minerals
11 12 13 14 15 16 17 18	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos	12 13 14 15 16 17 18 19	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page. Q Okay. On which page? A 34. Q 34? Okay. A He warns about the the the consequences of the occurrence of these minerals together.
11 12 13 14 15 16 17 18 19 20	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos deposits, and that's what you mentioned in your	12 13 14 15 16 17 18 19 20	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page. Q Okay. On which page? A 34. Q 34? Okay. A He warns about the the the consequences of the occurrence of these minerals together. Q Okay. These I don't understand
11 12 13 14 15 16 17 18 19 20 21	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos deposits, and that's what you mentioned in your paper; correct?	12 13 14 15 16 17 18 19 20 21	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page. Q Okay. On which page? A 34. Q 34? Okay. A He warns about the the the consequences of the occurrence of these minerals together. Q Okay. These I don't understand where he's warning. He says Vermont leads the
111 122 133 144 155 166 177 188 199 200 211 222	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos deposits, and that's what you mentioned in your paper; correct? A Yeah. He does asbestos and talc in	12 13 14 15 16 17 18 19 20 21 22	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.  Q 34? Okay.  A He warns about the the the consequences of the occurrence of these minerals together.  Q Okay. These I don't understand where he's warning. He says Vermont leads the nation in talc production.
111 122 133 144 155 166 177 188 199 200 211 222 233	MR. FROST: if I point him in the right place. MS. O'DELL: Yeah. That's fine. MR. FROST: Q Okay. So you'll agree with me that the top of the of the Ratté here on page 33, you know, Ratté's talking about the asbestos deposits, and that's what you mentioned in your paper; correct?	12 13 14 15 16 17 18 19 20 21 22	A But but, before we go on, I'd like to point out what he says in the second full paragraph on that page.  Q Okay. On which page?  A 34.  Q 34? Okay.  A He warns about the the the consequences of the occurrence of these minerals together.  Q Okay. These I don't understand where he's warning. He says Vermont leads the nation in talc production.  A No.

Page 150 Page 152 1 popular --<sup>1</sup> deal. No. It's the paragraph that starts 2 2 A And probably the largest asbestos mine <sup>3</sup> "because of the natural mineralogical 3 that ever was in Vermont was on a mountain called 4 associations." <sup>4</sup> Belvidere Mountain. And there was an early talc <sup>5</sup> mine on Belvidere Mountain in the serpentinite. 5 O Okay. So not the second paragraph? Second full paragraph. At least, But if you -- if you ask somebody about 6 A <sup>7</sup> Belvidere Mountain, they're gonna say, "Oh, yeah, <sup>7</sup> that's what it is on mine. 8 that's a great old big asbestos mine." And, yet, No. I'm sorry. Third. Go ahead. there was talc there. MS. O'DELL: 10 And I think Ratté, Ratté, I think, was Why don't you read the section you're 11 referring to? <sup>11</sup> a pretty good state geologist, and I think he --12 he was a visionary and was clearly concerned 12 A All right. 13 "Because of the natural mineralogical 13 about the occurrence of these two minerals <sup>14</sup> associations of serpentine asbestos and talc, 14 together. And that was why I point this out. similar environmental health concerns" --Okay. But you agree with me, as he's 16 Q 16 talking about --Uh-huh. <sup>17</sup> A 17 A There's definitely a central and a Et cetera, et cetera. 18 So he's pointing out the fact that southern district also. <sup>19</sup> asbestos and talc occur in similar environments 19 O Okay. And these are different --<sup>20</sup> and you'd better watch out. 20 different districts in the talc --21 Okay. But you agree with me he's I mean, is it fair to say as you're <sup>22</sup> specifically coinciding the deposits together, 22 moving south along the Appalachians --<sup>23</sup> when he's talking about the talc-soapstone 23 A They're geographically different. <sup>24</sup> mineralization and the relationship to the 24 MS. O'DELL: Page 151 Page 153 <sup>1</sup> asbestos mines, he specifically is excepting out Excuse me. <sup>2</sup> of that talc mines of southern Vermont; correct? <sup>2</sup> MR. FROST: <sup>3</sup> MS. O'DELL: 3 O Yes. The geo- -- the -- the two or 4 Object to the form. <sup>4</sup> three different talc and chrysotile deposits, you 5 A I'm not -- I'm not sure that's what <sup>5</sup> know, change as you move south; correct? 6 he's doing. 6 MS. O'DELL: <sup>7</sup> MR. FROST: Object to the form. 8 **O** Well, that's certainly how the document 8 MR. FROST: <sup>9</sup> reads, isn't it? 9 O They change and they're different? <sup>10</sup> MS. O'DELL: <sup>10</sup> MS. O'DELL: 11 11 Object to the form. Object to the form. 12 A If you read it that way, okay. I read 12 A I'm not --13 that last paragraph as being inclusive of the 13 MS. O'DELL: <sup>14</sup> ultramafic belt because I think this whole 14 Would you mind --15 <sup>15</sup> section is the Vermont ultramafic belt. Excuse me. 16 <sup>16</sup> MR. FROST: Could you -- would you repeat your But you agree with me he's breaking it question? 18 into two different districts, the southern talc MR. FROST: 19 19 mining district --Yeah. I think you can actually break And you'd agree with me, based on what 21 it into three. And the reason he does that is 21 Ratté is saying here, you know, if there's a <sup>22</sup> that in northern Vermont, you have a district <sup>22</sup> difference between, you know, the northern 23 that is dominated by asbestos mining and with --23 belt --<sup>24</sup> with some talc mining, but not a -- not a great 24 Actually, I specifically think he talks

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		Page 154		Page 156
	1	about the Belvidere, you know, Mountain	1	comment and not a peer-reviewed publication;
		A Yeah. Sure.		right?
	3	Q versus the southern talc districts;	1	MS. O'DELL:
		right?	4	Object to the form.
		A He does. But but he doesn't say	5	
	6	that the geology is different.	6	
		Q Well, he defines them as separate	7	it wasn't peer-reviewed before they were willing
		geological districts, doesn't he?	1	to publish it. But it isn't a publication. It's
		A He does. But, I mean, you can go to	1	a response.
	10	the state of Nevada, and there's 150 different	1	MR. FROST:
		gold districts, but they're the same in terms of		Q Yeah. I was gonna say you'd agree with
- 1		geology. It's a geographic separation of the		me it's a specific comment or response to
- 1		the the the areas that tend to have gold	1	something
- 1		mineralization.		A Yes.
	15			Q else that's done; right?
		A But the mineralization is the same.	16	Now, will you also agree with me
		Same type.	17	that it's fairly short, but it never
	18			specifically mentions any of the mines from
- 1		very specifically stating that the talc mines of		Vermont that were used to source talcum powder
		southern Wind of Windsor Minerals in the	1	for Johnson; right?
		southern mining district are different than what	1	A I don't think there's a specific mine
- 1		he talks about with the soapstone mineralization		mentioned in there.
- 1		district and the asbestos mining district of the		Q Okay.
- 1		Upper Missisquoi River Valley.	24	· ·
		Page 155		Page 157
		A Yeah.	1	(DEI OBITIOI (EIMIDII I (CIIDER 10
	2	MS. O'DELL:	2	WAS MARKED FOR IDENTIFICATION.)
	3	Object to the form.	3	MR. FROST:
	4	MR. FROST:	4	Q And, again, do you recognize this to be
		e onaj.	5	the Bain 1942?
		A I would be willing to say that he's	6	
	7	making a distinction between the two.	7	2 1 ma, agam, you a agree with me
	8	Q Okay.	8	this paper does not address any of the talc mines
	9	(DEPOSITION EXHIBIT NUMBER 9	9	actual utilized by Johnson & Johnson to source
	10	WAS MARKED FOR IDENTIFICATION.)	10	talc for its talcum powder; correct?
	11	MR. FROST:	11	MS. O'DELL:
	12		12	Object to the form.
	13	A He pronounces his name "rat-TAY."	13	
	14	Q It's "rat-TAY"?	14	any. I think that the date of the article would
	15		1	kind of preclude most of that.
	16	Q He's French, I guess?	16	MR. FROST:
	17	A Yeah.	17	Q Turn to page 256.
	18	Q Do you recognize this to be	18	A Okay.
	19	Do you have it yet? Here it is.	19	Q Second column, the second paragraph
	20	A No.	20	after the one above Belvidere Mountain Asbestos
	21	Q Do you recognize Exhibit 9 to be the	21	district. Do you see where I am?
	22	Bain 1934?	22	MS. O'DELL:
	23	A Yeah.	23	So you're on the right-hand side?
	24	Q Okay. Do you agree that this is a	24	MR. FROST:
- 1			1	

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Page 158	Page 160
<sup>1</sup> Yeah, right-hand side.	<sup>1</sup> Q Yeah.
<sup>2</sup> A Right-hand side.	Okay. So steatitized bodies at Chester
<sup>3</sup> MR. FROST:	<sup>3</sup> in Windham; correct?
<sup>4</sup> Q It's the last paragraph before	<sup>4</sup> A Correct.
<sup>5</sup> Belvidere Mountain asbestos district. It's	<sup>5</sup> Q So, effectively, what Bain is saying
6 the if you're going up	6 here is that you know, he's not saying you
<sup>7</sup> A Oh, I see it.	<sup>7</sup> find fibrous magnesium minerals in every talc
8 Q it's the second paragraph up.	8 deposit in Vermont; right?
<sup>9</sup> A Okay. Right.	<sup>9</sup> A That's right.
<sup>10</sup> Q The second sentence reads, "Every	10 Q And
<sup>11</sup> ultrabasic intrusive has a talc deposit, and	<sup>11</sup> A I'm not sure to what degree he's
<sup>12</sup> about one-third have some fibrous magnesia	talking about that. Is he if he's talking
13 mineral."	See, this is an Economic Geology
14 A Okay.	<sup>14</sup> publication.
15 Q It continues down below, "The	15 Q Okay.
16 occurrences illustrate progressively increased	16 A It's on, you know, structural
<sup>17</sup> intensity of change from talc to asbestos in	17 relationship of ore bodies. And he may be
proportionate amounts of Belvidere Mountain"	referring to economic asbestos since that's what
That's what we just talked about.	this whole publication is about. I don't see how
20 "to completely"	he could say that there is not a single grain of
How do you pronounce that word?	21 asbestos in in a in talc deposits once you
22 MS. O'DELL:	
	get 15 miles south of Belvidere Mountain, let's
Did you skip a sentence?  MR. FROST:	j.
21 WK. FROST.	24 Q Okay.
Page 159	Page 161
<sup>1</sup> I did. I skipped one. Because I we	<sup>1</sup> A That doesn't really make good sense.
	That doesn't really make good sense.
<sup>2</sup> can I can read it if you want, but	<sup>2</sup> Q You agree with me that I read it
<sup>2</sup> can I can read it if you want, but <sup>3</sup> MS. O'DELL:	, , , , , , , , , , , , , , , , , , ,
	<sup>2</sup> Q You agree with me that I read it
<sup>3</sup> MS. O'DELL:	<sup>2</sup> Q You agree with me that I read it <sup>3</sup> correctly.
<ul> <li>MS. O'DELL:</li> <li>I just wanted to make sure we</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>3 correctly.</li> <li>4 A You</li> </ul>
<ul> <li>MS. O'DELL:</li> <li>I just wanted to make sure we</li> <li>MR. FROST:</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>3 correctly.</li> <li>4 A You</li> <li>5 Q What he's saying</li> </ul>
<ul> <li>MS. O'DELL:</li> <li>I just wanted to make sure we</li> <li>MR. FROST:</li> <li>No, no. We're reading it right.</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>3 correctly.</li> <li>4 A You</li> <li>5 Q What he's saying</li> <li>6 A Yeah. You read it</li> </ul>
<ul> <li>MS. O'DELL:</li> <li>I just wanted to make sure we</li> <li>MR. FROST:</li> <li>No, no. We're reading it right.</li> <li>MS. O'DELL:</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>correctly.</li> <li>A You</li> <li>Q What he's saying</li> <li>A Yeah. Yeah. You read it</li> <li>Q is that you'll get fibrous magnesium</li> </ul>
<ul> <li>MS. O'DELL:</li> <li>I just wanted to make sure we</li> <li>MR. FROST:</li> <li>No, no. We're reading it right.</li> <li>MS. O'DELL:</li> <li> we're all staying together.</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>correctly.</li> <li>A You</li> <li>Q What he's saying</li> <li>A Yeah. You read it</li> <li>Q is that you'll get fibrous magnesium</li> <li>in about one-third of the talc deposits; correct?</li> </ul>
<ul> <li>MS. O'DELL:</li> <li>I just wanted to make sure we</li> <li>MR. FROST:</li> <li>No, no. We're reading it right.</li> <li>MS. O'DELL:</li> <li> we're all staying together.</li> <li>MR. FROST:</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>correctly.</li> <li>A You</li> <li>Q What he's saying</li> <li>A Yeah. Yeah. You read it</li> <li>Q is that you'll get fibrous magnesium</li> <li>in about one-third of the talc deposits; correct?</li> <li>MS. O'DELL:</li> </ul>
<ul> <li>MS. O'DELL:</li> <li>I just wanted to make sure we</li> <li>MR. FROST:</li> <li>No, no. We're reading it right.</li> <li>MS. O'DELL:</li> <li> we're all staying together.</li> <li>MR. FROST:</li> <li>Yeah.</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>correctly.</li> <li>A You</li> <li>Q What he's saying</li> <li>A Yeah. Yeah. You read it</li> <li>Q is that you'll get fibrous magnesium</li> <li>in about one-third of the talc deposits; correct?</li> <li>MS. O'DELL:</li> <li>Object to the form.</li> </ul>
<ul> <li>3 MS. O'DELL:</li> <li>4 I just wanted to make sure we</li> <li>5 MR. FROST:</li> <li>6 No, no. We're reading it right.</li> <li>7 MS. O'DELL:</li> <li>8 we're all staying together.</li> <li>9 MR. FROST:</li> <li>10 Yeah.</li> <li>11 A I'm not sure which one you're talking</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>correctly.</li> <li>A You</li> <li>Q What he's saying</li> <li>A Yeah. Yeah. You read it</li> <li>Q is that you'll get fibrous magnesium</li> <li>in about one-third of the talc deposits; correct?</li> <li>MS. O'DELL:</li> <li>Object to the form.</li> <li>MR. FROST:</li> </ul>
<ul> <li>3 MS. O'DELL:</li> <li>4 I just wanted to make sure we</li> <li>5 MR. FROST:</li> <li>6 No, no. We're reading it right.</li> <li>7 MS. O'DELL:</li> <li>8 we're all staying together.</li> <li>9 MR. FROST:</li> <li>10 Yeah.</li> <li>11 A I'm not sure which one you're talking</li> <li>12 about.</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>correctly.</li> <li>A You</li> <li>Q What he's saying</li> <li>A Yeah. Yeah. You read it</li> <li>Q is that you'll get fibrous magnesium</li> <li>in about one-third of the talc deposits; correct?</li> <li>MS. O'DELL:</li> <li>Object to the form.</li> <li>MR. FROST:</li> <li>Q That's what Bain says.</li> </ul>
<ul> <li>3 MS. O'DELL:</li> <li>4 I just wanted to make sure we</li> <li>5 MR. FROST:</li> <li>6 No, no. We're reading it right.</li> <li>7 MS. O'DELL:</li> <li>8 we're all staying together.</li> <li>9 MR. FROST:</li> <li>10 Yeah.</li> <li>11 A I'm not sure which one you're talking</li> <li>12 about.</li> <li>13 MR. FROST:</li> </ul>	<ul> <li>Q You agree with me that I read it</li> <li>correctly.</li> <li>A You</li> <li>Q What he's saying</li> <li>A Yeah. Yeah. You read it</li> <li>Q is that you'll get fibrous magnesium</li> <li>in about one-third of the talc deposits; correct?</li> <li>MS. O'DELL:</li> <li>Object to the form.</li> <li>MR. FROST:</li> <li>Q That's what Bain says.</li> <li>A Correct.</li> </ul>
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3 MS. O'DELL: 4 I just wanted to make sure we 5 MR. FROST: 6 No, no. We're reading it right. 7 MS. O'DELL: 8 we're all staying together. 9 MR. FROST: 10 Yeah. 11 A I'm not sure which one you're talking about. 13 MR. FROST: 14 Q Straight as a S-T-E-A-T-I-T-I-Z-E-D. 15 A I can't see it. It's so fine.	2 Q You agree with me that I read it 3 correctly. 4 A You 5 Q What he's saying 6 A Yeah. Yeah. You read it 7 Q is that you'll get fibrous magnesium 8 in about one-third of the talc deposits; correct? 9 MS. O'DELL: 10 Object to the form. 11 MR. FROST: 12 Q That's what Bain says. 13 A Correct. 14 Q And then he also talks about the 15 fact 16 A Let me let me back up.
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I just wanted to make sure we  MR. FROST:  No, no. We're reading it right.  MS. O'DELL:  we're all staying together.  MR. FROST:  Yeah.  I'm not sure which one you're talking about.  MR. FROST:  A I'm not sure which one you're talking labout.  Is MR. FROST:  A I can't see it. It's so fine.  I Q I looked it up. I know it means talc, labout I think it's just an older word.  MR. FROST:  Veah.  Veah.  Veah.  Veah.  Veah.  Veah.  Veah.  Veah.  Veah.  State-a-zide." Stat statizized  State-bodies?  A Oh. You're talking about steatitized.  Steatitized. There you go. Okay.	2 Q You agree with me that I read it 3 correctly. 4 A You 5 Q What he's saying 6 A Yeah. Yeah. You read it 7 Q is that you'll get fibrous magnesium 8 in about one-third of the talc deposits; correct? 9 MS. O'DELL: 10 Object to the form. 11 MR. FROST: 12 Q That's what Bain says. 13 A Correct. 14 Q And then he also talks about the 15 fact 16 A Let me let me back up. 17 If he just says fibrous magnes 18 magnesium? 19 Q Yeah. Magnesian mineral. 20 A Okay. How about those that aren't 21 magnesian only? Suppose they're calcium
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	*Page#D: 2380	36, Ph.D.
	Page 162	Page 164
1	A I know. But that would what he's	<sup>1</sup> (DEPOSITION EXHIBIT NUMBER 11
2	saying specifically would be minerals that were	<sup>2</sup> WAS MARKED FOR IDENTIFICATION.)
3	magnesian, period.	<sup>3</sup> MR. FROST:
4	Q Okay.	4 Q You recognize this article?
5	A That would be chrysotile. And that may	5 A Yes.
6	be that may be what he's saying. He may be	6 Q And, again, you'd agree with me that
7	referring to chrysotile and not the amphiboles.	Van Gosen never talks specifically about any of
8	Q But, again, I'm reading what Bain is	8 the talc mines that have been utilized by
9	saying correctly?	<sup>9</sup> Johnson & Johnson for talcum powder; correct?
10	A Correct.	10 MS. O'DELL:
11	Q Okay. And then he also talks about	Object to the form.
12	that there's a difference in the occurrence of	12 A I believe that he does not mention
13	he specifically says talc and asbestos in	13 specific mines.
14	proportionate amounts of Belvidere Mountain,	14 MR. FROST:
15	which we know is the chrysotile mine, and then he	Okay. Mark this as Exhibit 12.
16	talks about two completely steritized [sic]	And leave the 2010 IARC.
17	bodies"	To save space and so I could put it all
18	A Right.	18 in one box, I didn't bring an extra copy.
19	Q I'm sure I pronounced that incorrectly.	19 MS. O'DELL:
20	"at Chester and Windham."	Yeah, no problem. Just give me a
21	Correct?	21 minute to get mine.
22	So what he's saying is there's a	22 MR. FROST:
23	difference between the deposit at Belvidere and	Yes.
24	the deposits found south, which are completely	<sup>24</sup> MS. O'DELL:
	Page 163	Page 165
1	and I think we had defined steatitized as the	And that's Exhibit 12?
	conversion of talc.	
- 1		1 2 MR. FROST:
3	A Well, it was only Windham.	<sup>2</sup> MR. FROST: <sup>3</sup> Yes.
3 4	,	<sup>3</sup> Yes.
4	Q Okay. And the and Windham is the	Yes. 4 (DEPOSITION EXHIBIT NUMBER 12
4 5	Q Okay. And the and Windham is the area we're talking about; correct?	<ul> <li>Yes.</li> <li>(DEPOSITION EXHIBIT NUMBER 12</li> <li>WAS MARKED FOR IDENTIFICATION.)</li> </ul>
4 5 6	Q Okay. And the and Windham is the area we're talking about; correct?  A Right.	<ul> <li>Yes.</li> <li>(DEPOSITION EXHIBIT NUMBER 12</li> <li>WAS MARKED FOR IDENTIFICATION.)</li> <li>MR. FROST:</li> </ul>
4 5 6 7	<ul> <li>Q Okay. And the and Windham is the area we're talking about; correct?</li> <li>A Right.</li> <li>Q Okay.</li> </ul>	<ul> <li>Yes.</li> <li>(DEPOSITION EXHIBIT NUMBER 12</li> <li>WAS MARKED FOR IDENTIFICATION.)</li> <li>MR. FROST:</li> <li>Q I'll direct your attention to page 283,</li> </ul>
4 5 6 7 8	<ul> <li>Q Okay. And the and Windham is the area we're talking about; correct?</li> <li>A Right.</li> <li>Q Okay.</li> <li>A You know that if you go go back and</li> </ul>	<ul> <li>Yes.</li> <li>(DEPOSITION EXHIBIT NUMBER 12</li> <li>WAS MARKED FOR IDENTIFICATION.)</li> <li>MR. FROST:</li> <li>Q I'll direct your attention to page 283,</li> <li>sir. I take it you recognize this as the IARC</li> </ul>
4 5 6 7 8 9	Q Okay. And the and Windham is the area we're talking about; correct?  A Right. Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain,	<ul> <li>Yes.</li> <li>(DEPOSITION EXHIBIT NUMBER 12</li> <li>WAS MARKED FOR IDENTIFICATION.)</li> <li>MR. FROST:</li> <li>Q I'll direct your attention to page 283,</li> <li>sir. I take it you recognize this as the IARC</li> <li>A Right.</li> </ul>
4 5 6 7 8 9	Q Okay. And the and Windham is the area we're talking about; correct?  A Right. Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in	<ul> <li>Yes.</li> <li>(DEPOSITION EXHIBIT NUMBER 12</li> <li>WAS MARKED FOR IDENTIFICATION.)</li> <li>MR. FROST:</li> <li>Q I'll direct your attention to page 283,</li> <li>sir. I take it you recognize this as the IARC</li> <li>A Right.</li> </ul>
4 5 6 7 8 9 10	Q Okay. And the and Windham is the area we're talking about; correct?  A Right. Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they	Yes.  4 (DEPOSITION EXHIBIT NUMBER 12  5 WAS MARKED FOR IDENTIFICATION.)  6 MR. FROST:  7 Q I'll direct your attention to page 283,  8 sir. I take it you recognize this as the IARC  9 A Right.  10 Q 2010 document?  11 MS. O'DELL:
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Okay. And the and Windham is the area we're talking about; correct?  A Right. Q Okay. A You know that if you go go back and read the publications on Belvidere Mountain, there were zones of pure talc six feet thick in the asbestos mountain. And had they had they wanted to, they could have probably built a mill that would have would have recovered the talc. Q Okay. But nobody ever Johnson & Johnson never sourced any talc from Belvidere; correct? A Correct. MR. FROST: And I'll mark the Van Gosen article. What are we on now? Ten? THE COURT REPORTER: Eleven.	Yes.  (DEPOSITION EXHIBIT NUMBER 12  WAS MARKED FOR IDENTIFICATION.)  MR. FROST:  Q I'll direct your attention to page 283,  sir. I take it you recognize this as the IARC  A Right.  Q 2010 document?  MS. O'DELL:  I'm sorry. You have 2010 or 2012?  MR. FROST:  4 2010.  MS. O'DELL:  Excuse me. Give me just one more  recond.  A And which page did you say?  MR. FROST:  Q 283.  A 283? Okay.

Page 166 Page 168 1 Yeah. <sup>1</sup> there is one that -- that shows that there was a <sup>2</sup> period when they did -- did use cosmetic grade <sup>2</sup> MR. FROST: <sup>3</sup> talc from the Johnson mine. You got it? All right. About halfway down, there's the -- the You'd agree with me that the Johnson 4 Q <sup>5</sup> sentence starts "Chlorite in amphiboles." <sup>5</sup> mine was an industrial talc mine; correct? 6 MS. O'DELL: 6 A Yes. Object to the form. <sup>7</sup> Q And it reads, "Chlorite in amphiboles 8 are usually associated with this type of talc Repeat your question, please. <sup>9</sup> deposit, although they are commonly separated in MR. FROST: <sup>10</sup> space from talc ore (Vermont). The amphiboles 10 **Q** You'd agree with me that the Johnson 11 may or may not be asbestiform, depending on the 11 mine was --<sup>12</sup> local geological history." 12 A I think, primarily. 13 **O** 13 Did I read that right? Yeah. And you'd agree with me that 14 A 14 the -- the talc ore from the Johnson mine was Correct. 15 **Q** So what they're saying is you have to <sup>15</sup> actually sent to a different mill? 16 look at the individual deposit; right? 16 MS. O'DELL: 17 17 A Correct. Object to the form. 18 **Q** All right. So I guess the summary of I'm not sure that that's correct. 19 all of this is, you know, local geology is 19 They -- the Johnson mill had a flotation <sup>20</sup> important. You can look at the belt, but you 20 circuit in it that might could have been used to <sup>21</sup> actually have to look at local geology, too; 21 come up with some cosmetic grade rock or product. 22 MR. FROST: 22 right? 23 A 23 **O** Absolutely. Okay. You can't point me, sitting here Okay. The next paragraph on page 5 of 24 **O** <sup>24</sup> right now, to a single document --Page 167 Page 169 <sup>1</sup> your report, the second paragraph of that <sup>1</sup> A No. I think --<sup>2</sup> page --<sup>2</sup> **O** -- to base that opinion on? 3 A We're done with IARC? 3 **A** I think that --4 O Yeah, we're done for now. I'd keep <sup>4</sup> MS. O'DELL: <sup>5</sup> that close. I think that comes up --I'm sorry. -- Ms. O'Dell may be looking for it. 6 A Okay. 7 **Q** <sup>7</sup> But there is -- there is such a document. I -- a bunch of times, but... Okay. Which page did you say? Nine? 8 A <sup>8</sup> found it. 9 **O** Page 5. <sup>9</sup> MR. FROST: 10 Q 10 A Oh, 5. What document are you looking at? <sup>11</sup> A 11 Okeydoke. (Produces document.) 12 **Q** In the second paragraph you note at the <sup>12</sup> **Q** Which one are you referring to it as? 13 bottom that, "Talc was sourced from the following <sup>13</sup> This one, the J&J Exhibit 4. 14 Vermont mines from 1965 to 2003," and the first <sup>14</sup> MS. O'DELL: 15 <sup>15</sup> one you include is Johnson. That's what I've -- I've seen it 16 A Right. <sup>16</sup> referred to as is Exhibit 4. I'm sure there are 17 **Q** Is that a mistake, sir, or do you have other transcripts that have referred to it <sup>18</sup> any evidence to show that talc ever was sourced <sup>18</sup> various ways. 19 by Johnson & Johnson for talcum powder from the <sup>19</sup> MR. FROST: <sup>20</sup> Johnson mine? 20 Okay. We'll call it the J&J Exhibit --21 A I think that there's a document that <sup>21</sup> Exhibit J&J-4 for now. <sup>22</sup> **Q** 22 shows that. Do you mind if I read this, sir? <sup>23</sup> A 23 **O** Do you know what document that is? No. Please. 24 A I don't have the number in my head, but 24 Down at the bottom of one of the pages,

Page 172 <sup>1</sup> there's actually the mention of the Johnson mine 1 A Right. 2 **Q** <sup>2</sup> and the fact that there was some cosmetic talc -- or the numbers of talc that are <sup>3</sup> production there. <sup>3</sup> coming from the Johnson mine. 4 Q Okay. I see what you're talking about 4 A Right. <sup>5</sup> here, sir. 5 O And it says Grade 500 and Grade 549. 6 MS. O'DELL: 6 A Right. 7 O What evidence do you have to show that I think he may be talking about another <sup>8</sup> page, Jack. Take a look at the whole thing. 8 Grade 500 and Grade 549 were actually utilized by MR. FROST: Johnson & Johnson in its cosmetic talcum powder 10 We'll mark this as whatever exhibit <sup>10</sup> products at issue in this case? <sup>11</sup> we're on. Thirteen? 11 MS. O'DELL: 12 Just put it there. I was gonna say, Object to the form. 13 we'll -- we'll add another exhibit number to 13 A I'm not saying that. 14 MR. FROST: 14 this -- this document when --Okay. And, in fact, in most of the <sup>15</sup> MS. O'DELL: 15 O <sup>16</sup> documents, and you refer to it in your report as 16 Might be worthwhile to put Cook 13 on <sup>17</sup> it or something like that. <sup>17</sup> Grade 66, is the Vermont ore that was used by 18 MR. FROST: <sup>18</sup> Johnson & Johnson: correct? 19 A 19 That's right. Oh, it says "Cook." I think so. 20 MS. O'DELL: 20 **O** Further down on page 5 of your 21 21 report -- it's the end of the fourth paragraph --Oh, it does? 22 (DEPOSITION EXHIBIT NUMBER 13 22 A Okay. -- you state, "There's ample evidence WAS MARKED FOR IDENTIFICATION.) 23 **O** 24 MR. FROST: 24 that the main and east Argonaut ore bodies are Page 171 Page 173 Okay. I hand you this document. <sup>1</sup> segments of the same body" -- sorry - "same ore 1 O Okay. Thank you, sir. <sup>2</sup> body swarm, making them and talc derived from 2 A 3 **Q** And, so, you're relying on, it looks <sup>3</sup> them essentially equivalent." 4 like, the second page of it, if you want to open 4 A Right. <sup>5</sup> the document. 5 **Q** What do you mean by -- what's the --<sup>6</sup> what's the measure of equivalency you're using 6 MS. O'DELL: 7 Why -- why don't you take a look, <sup>7</sup> here? 8 A 8 Doctor, and --The Argonaut ore body is actually a 9 MR. FROST: <sup>9</sup> zone of talc that wraps around a -- a remaining <sup>10</sup> core of serpentinite. And, so, if you're mining 10 O Yeah. I was gonna say. 11 Can you show me where -- what you're on one side of the serpentinite, you've got one 12 relying on to say that talc from the Johnson mine 12 pit, and you're mining the same rock on the other 13 was utilized by Johnson & Johnson for its final 13 side of the serpentinite. And that's -- that's 14 talcum powder products? <sup>14</sup> all I was saying. You have one big ore body It's at the bottom of page 3. <sup>15</sup> there. 15 A 16 O Let me see that, sir. 16 O Okay. Do you have any -- any 17 A But I think that there's actually more. <sup>17</sup> geological surveys or any, you know, mine 18 drilling data you can point me at to show that <sup>18</sup> I think that there's another document that <sup>19</sup> actually puts a limit, a time limit on when they 19 the two bodies were, you know, identical, or <sup>20</sup> were securing cosmetic talc there. It's a short <sup>20</sup> you're just saying they were part of the same <sup>21</sup> period. <sup>21</sup> generalized formation? 22 **O** If I can turn your attention to the 22 A Well, you used the word "identical." 23 second page of this document, it notes -- look 23 And I -- you know, we try not to use --<sup>24</sup> right here -- it notes the grades of talc --24 **O** I guess I should -

Page 176 Page 174 1 A -- that word in geology. 1 sure --2 **Q** -- use -- use "equivalent"? Would you finish, Doctor, and then you 3 **A** <sup>3</sup> can go, Jack? I'm sorry. It just --Yeah. 4 Q So is the equivalency purely that they <sup>4</sup> MR. FROST: <sup>5</sup> form from the same, you know, the general -- the Yeah. <sup>6</sup> same general formation deposit? MS. O'DELL: 7 A Right. I mean ---- seems like he wasn't finished 8 MS. O'DELL: 8 trying --9 Object to the form. MR. FROST: 10 A Yeah. Your own documents indicate Oh. I thought he finished. 11 this. You know, there's the 2008 report on <sup>11</sup> MS. O'DELL: -- to explain what he was saying. <sup>12</sup> Argonaut that goes through the geology. But 12 13 you've got -- you've got geologic data that goes 13 A Yeah. Well, yeah, to sum it up, I <sup>14</sup> back, I guess, to 1973 or '4 related to Argonaut would say that Argonaut is -- is looking at one <sup>15</sup> when it was even an underground mine. And it's <sup>15</sup> large ore deposit that's being mined in two pits <sup>16</sup> pretty clear that, as mining progressed there, <sup>16</sup> that are separated, because part of the <sup>17</sup> that there was one very large ore body there. <sup>17</sup> serpentinite was not altered to talc. And, so, 18 And -- but it has a piece of serpentinite left, 18 it's in place and it kind of protrudes in, and 19 as a -- as a lot of these things do. 19 you've got the two big pits on either side of it. 20 <sup>20</sup> MR. FROST: Because the ore-forming process works 21 in toward the -- toward the center of the 21 **O** And you're not necessarily saying that <sup>22</sup> serpentinite, hoping to eat it up entirely. 22 the talc from one pit is, you know, exactly the <sup>23</sup> You know, ideally, there wouldn't be any 23 same as the other. They don't have the same --<sup>24</sup> serpentinite left. That doesn't happen often. <sup>24</sup> they don't necessarily have the same percentage Page 177 Page 175 <sup>1</sup> MR. FROST: <sup>1</sup> of talc, the same percentage of other minerals, 2 **Q** <sup>2</sup> you know, chlorite, for example, things like Yeah. I -- I think we can both agree <sup>3</sup> that --<sup>3</sup> that; right? 4 A <sup>4</sup> MS. O'DELL: 5 **Q** -- you tend to have a serpentinite 5 Object to the form. 6 core --6 A I think you can go to any of the mines 7 A <sup>7</sup> and say that. 8 O -- in a lot of these deposits. 8 MR. FROST: And, so, that's what it looks like when 9 **Q** Yeah. 10 you -- when you look at a map of the mine as it You can go to the north end, it will be 11 progressed. As it was developed, they came in <sup>11</sup> slightly different than the south end, or maybe 12 and began to -- to mine in an open pit more or 12 it won't be, but --13 less where the old underground mine was. But 13 O That's -- that's what I'm getting at 14 then if you -- if you keep looking, this open pit 14 is, you know, even within the mineral deposit, <sup>15</sup> expands, and you've got a major working on one you can have changes of talc composition. <sup>16</sup> side of the serpentinite and then one on the 16 A That is why it is so important to do <sup>17</sup> other side. <sup>17</sup> your drilling and to analyze your core, analyze 18 O All right. So that's the essential 18 your -- your blast hole drills --<sup>19</sup> equivalence is that it's --<sup>19</sup> **Q** Okay. <sup>20</sup> A 20 A It's all one big deposit. -- and drill cuttings. 21 O -- one geological deposit? <sup>21</sup> O I agree. <sup>22</sup> A 22 You're not necessarily --I mean, you really need to be doing 23 MS. O'DELL: <sup>23</sup> that. 24 Excuse me. Sorry, y'all. Just make 24 **O** All right. Next sentence on page 5,

- <sup>2</sup> Hammondsville, Hamm, Rainbow, and Argonaut mines
- 3 exploited talc deposits that are closely
- 4 associated with serpentinite bodies. Asbestos
- 5 minerals, including chrysotile, actinolite,
- 6 tremolite and anthophyllite, occur in
- <sup>7</sup> talc-bearing serpentinites."
- 8 And you're saying that, as a
- generalization, that, you know, serpentinite
- 10 obviously is a serpentine mineral, but --
- 11 So you're not saying -- you're not
- 12 saying that every deposit that has converted from
- 13 serpentinite will always have each one of these
- 14 particular minerals in it; correct?
- 15 A No, I'm not saying that.
- 16 O And I think we just talked about you
- 17 have to look at the local geology; right?
- 18 A That's correct.
- 19 **Q** Turning to page 6, under "Mining and
- 20 Talc Composition" --
- 21 A Okav.
- 22 **Q** -- third paragraph down starts, "On a
- 23 daily basis."
- 24 A Okay.

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- Okay. "On a daily basis, the boundary 1 O
- <sup>2</sup> between ore and waste is often determined
- <sup>3</sup> visually by mining equipment operator based on
- 4 his experience with that particular ore type. It
- 5 is a common practice for some mines for the
- <sup>6</sup> geologists to spray paint lines or otherwise mark
- <sup>7</sup> the boundaries between ore and non-ore. Although
- 8 the miner" -- I'm sorry -- "although, to the
- <sup>9</sup> miner, the rock may look the same on either side
- 10 of that line, these marks guide him through his
- 11 shift."
- 12 Did I read that right?
- 13 A
- And you'll agree with me there was
- <sup>15</sup> actually more done than just, you know,
- <sup>16</sup> visualization of the talc? You had just talked
- <sup>17</sup> before about drilling and --
- 18 A Well, I was really referring to the guy
- 19 that's actually doing the mining. The -- the
- <sup>20</sup> mining is done with a loader and a truck. And
- 21 somehow the guy running the loader has got to
- 22 know whether this load goes to the mill or goes
- 23 to the -- the waste dump.
- 24 O Yep.

Page 180 1 you talk about "The Johnson mine as well as the 1 A And, so, the -- the loader operator has

- <sup>2</sup> got to make some -- some very important decisions
- <sup>3</sup> as -- as he's mining. And -- and in many mines
- 4 it's up to the geologist or the mine
- <sup>5</sup> superintendent to make sure the loader operator
- <sup>6</sup> knows where the ore is. And oftentimes they use
- <sup>7</sup> spray paint, because the geologist may be -- may
- 8 be pretty good about knowing where you've got
- chlorite-rich rock, or maybe he's seen some
- 10 asbestos. And, so, he'll spray-paint a line and
- 11 tell the operator, "Do not cross that line."
- 12 **Q** And, then, that's what I was gonna say.
- 13 It's not the miner himself who's determining --
- 14 it's not the guy who's the load operator who is
- saying where to go. There's actually a geologist
- or a mine planner or a supervisor?
- 17 A I said there should be.
- 18 **Q** Okay.
- 19 A I didn't say there was. We can always
- hope that there is.
- 21 **Q** So --
- 22 A But, in reality, it isn't always the
- 23 case.
- 24 O But, in general mine theory, there

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- <sup>1</sup> should be a geologist, a supervisor, or somebody
- <sup>2</sup> who comes up with the daily shift plan or the
- <sup>3</sup> short-term mine plan; correct?
- The -- yes, there should be someone
- <sup>5</sup> that alerts the person doing the mining to what
- 6 he should be mining and what he should be -- be
- <sup>7</sup> telling the train operator or whatever, take this
- 8 load to the dump.
- 9 **Q** Yeah. And that geologist would be
- 10 looking at drill core samples, blast core
- <sup>11</sup> samples, I'm sure geological models, things like
- 12 this to determine, you know, where they'll be
- 13 mining in that particular shift or where the ore
- <sup>14</sup> will be? Is that -- that fair?
- MS. O'DELL:
- 16 Object to the form.
- <sup>17</sup> A He -- he had better be using all the
- data that's available to him for that part of the
- <sup>19</sup> mine.
- <sup>20</sup> MR. FROST:
- 21 **O** Okay.
- And it can be all or part of what you 22 A
- 23 mentioned.
- 24 **Q** Yeah. And one of the ways that's --

<sup>1</sup> you know, I think nowadays, I believe they use <sup>2</sup> GPSs and things like that, and the buckets tell

3 them exactly where to go; right?

4 MS. O'DELL:

5 Object to the form.

6 A There are places in the world where you

<sup>7</sup> can do that. I'm not sure that that's -- that

8 that would be easy to do in a talc open-pit

<sup>9</sup> operation.

<sup>10</sup> MR. FROST:

11 **O** But, you know, that's just one of the

<sup>12</sup> ways, you know. Another visual cue is an

<sup>13</sup> engineer is, you know, painting lines so that the

<sup>14</sup> operator knows generally which direction to go

<sup>15</sup> and where to stop loading ore talc; correct?

16 A Correct. And -- and color is -- is

17 used pretty much everywhere for talc. If you --

18 I mean, obviously, you -- you need high

<sup>19</sup> whiteness, high brightness. And talc, once you

<sup>20</sup> begin to get chlorite in it or accessory

<sup>21</sup> dolomite, you can begin to make your talc gray,

<sup>22</sup> and -- and suddenly you're -- you've got a

<sup>23</sup> product that, no matter what you do to it in the

<sup>24</sup> mill, you're not gonna get your color right.

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1 O Uh-huh.

2 A And, so, it may be simply a matter of

<sup>3</sup> color. And if that's all it is, then a loader

4 operator may -- may very well be able to handle

<sup>5</sup> it.

6 O Okay.

7 A But if it's something else

8 mineralogically, he may be completely clueless

and need someone, likely a geologist or the mine

<sup>10</sup> superintendent, to tell him what to do.

11 O Okay. You'd agree with me it's,

12 you know, it's more than just the guy who's doing

13 the -- the loader. There's a whole process in

14 place, typically, at mines to figure out how to

15 follow the ore body and what to mine and what to

<sup>16</sup> waste; correct?

17 A There's -- there's --

18 MS. O'DELL:

19 Object to the form.

20 A Yes.

21 MR. FROST:

22 **Q** Okay.

23 A There is supposed to be.

24 **Q** At the bottom of that page, on page 6, Page 184

1 you write, "In short, it is almost impossible to

<sup>2</sup> operate a mine in commodities that occur in

<sup>3</sup> relatively small, irregular deposits such as

<sup>4</sup> high-quality talc without periodically

<sup>5</sup> incorporating host rock, low-grade ore, and/or

otherwise undesirable ore into the material being

removed from the mine and processed."

Okay. So my question there is: On

what basis are we defining the possibility? Are

you talking about on an hourly basis, a shift, a

day, a month, over the life of the mine?

Well, you know, I'm tempted to say "All

13 of the above," but that's not really -- that was

not really the way I was saying that.

That's a statement that says that when

you've got an irregular ore body of variable

composition, it's not possible to mine one grade

of rock exclusively, day in and day out, without having bits and pieces of adjacent wall rock.

20 I mean, in the underground mine, every

time they shoot, you've got to go in with a steel

bar and tap the roof and listen for loose rocks

or you're -- you're fixing to die.

And if you're mining over near the edge

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<sup>1</sup> of the ore body, that loose rock on the ceiling

<sup>2</sup> could be black wall. And -- and you've got to

<sup>3</sup> scale it down. That rock is coming down into

4 your ore. And the miner doesn't -- he's not

gonna get it out.

And, so, the point is that -- that

<sup>7</sup> in -- the reality of mining is such that you --

<sup>8</sup> you don't go out with tweezers and pick the best

stuff out. You know, mining is a -- is a -- a

process where you -- you come out of a hole with

11 hundreds of tons of rock a day. And -- and to

think that -- that every pound that makes up that

13 hundreds of tons is gonna be the purest, best,

14 high-grade talc or whatever ore that there is

is -- it just doesn't work like that.

Okay. And, in fact --16 O

Sorry.

17

18 A Well, and I was -- I was gonna add that

most mines have very specific quality control

programs that -- that try to make sure that they

<sup>21</sup> are getting the best they can get. But I don't

22 know of -- of any mine I've ever been associated

23 with that didn't have occasional issues with --

<sup>24</sup> with wall rock or -- or a big included xenolith

Page 188 1 that they were unaware of getting blasted in with <sup>1</sup> MS. O'DELL: <sup>2</sup> their product. Object to the form. And in an open pit it's even worse It depends on how your mill is set up. 4 because, you know, you can try as much as you can <sup>4</sup> There are mills that might not -- might not <sup>5</sup> to -- to stay in ore, but if you've got an <sup>5</sup> handle the chlorite-rich cinders. Because when 6 irregular surface that marks the boundary between <sup>6</sup> you -- when you crush and grind chlorite, it will <sup>7</sup> talc and schists, let's say, your -- your drill <sup>7</sup> tend to report with talc in a -- in a flotation <sup>8</sup> plant. 8 cuttings may not tell you that unless you really <sup>9</sup> have somebody looking at drill cuttings for your 9 **Q** But, again, my question was more <sup>10</sup> blast holes every single day. <sup>10</sup> general than that. 11 A 11 Now, in the quarries that I work on, we Okay. 12 blast about sometimes once a week, sometimes once It's when done properly, the point of every two weeks. We blast 40- or 50,000 tons at 13 sorting and beneficiation is to remove these 14 a shot, which would be much larger than at the <sup>14</sup> excess rocks and things that end up in the ores; 15 talc mine. 15 correct? 16 <sup>16</sup> MS. O'DELL: But -- but when we blast, we always <sup>17</sup> find material that we weren't anticipating, and 17 Object to the form. 18 we've got to get rid of it. 18 MR. FROST: 19 O Sure. And --19 O That's -- that's why you do sorting and 20 MS. O'DELL: <sup>20</sup> beneficiation? Jack, do you mind if we go off the 21 MS. O'DELL: 22 22 record just for a second? Object to the form. 23 MR. FROST: 23 A The sorting, yes. And beneficiation in 24 Sure. <sup>24</sup> general, you're -- you're correct. I wouldn't Page 187 Page 189 <sup>1</sup> MS. O'DELL: <sup>1</sup> have worded it that way, but, yes. I mean, the And if you need to ask a couple -- I <sup>2</sup> object of beneficiation is to make what goes in 3 don't mean to --<sup>3</sup> better when it comes out. 4 MR. FROST: <sup>4</sup> MR. FROST: Yeah, I was going to say, do you mind 5 **Q** Okay. 6 if I ask two questions? 6 A So, from that standpoint, sure. <sup>7</sup> MS. O'DELL: We can take a break. <sup>8</sup> VIDEOGRAPHER: 8 Sure. MR. FROST: Going off the record. The time is 10 Then we can go off. <sup>10</sup> 11:52 a.m. 11 **Q** And, you know, in mining, that's sort 11 (OFF THE RECORD.) 12 of expected, and that's why you have, on the back <sup>12</sup> VIDEOGRAPHER: <sup>13</sup> end, you have sorting, beneficiation processes, We're back on the record. The time is 13 14 things like that; correct? <sup>14</sup> 12:11 p.m. 15 MS. O'DELL: 15 MR. FROST: 16 Q 16 Object to the form. Doctor, could you turn to page 7 of 17 A Correct. your report? 18 MR. FROST: <sup>18</sup> A Okay. And you'd also agree with me that, 19 **O** And it's the paragraph that starts 20 you know, the point of sorting, beneficiation, <sup>20</sup> "Imerys encountered difficulties." 21 et cetera, when done properly, is to remove that <sup>21</sup> A Right. <sup>22</sup> wall rock, host rock, things like that, you know, 22 **O** Look at the last sentence of that. It

<sup>24</sup> correct?

23 that we talked about that may end up in the ores;

<sup>23</sup> says, "The need for careful, selective mining

<sup>24</sup> relative to the controlled potential

Page 192 <sup>1</sup> fiber-bearing zones in Vermont was emphasized in <sup>1</sup> there was a difference between the ore they <sup>2</sup> a Cyprus interoffice correspondence." <sup>2</sup> wanted to send to the mill and the -- the fibrous I read that right? 3 waste ore; right? 4 A 4 MS. O'DELL: Yes. 5 **Q** And, if you look down, I take it that's Object to the form. <sup>6</sup> the -- that's the quote from the correspondence That is correct, obviously. 6 A <sup>7</sup> we're talking about, the Imerys 219720 below <sup>7</sup> MR. FROST: 8 that? 8 O Okay. And that it shows that they had, 9 A <sup>9</sup> in fact, you know, put in a selective mining Right. 10 O 10 program to make sure that they weren't capturing Tremolite and use deposits as 11 encountered? 11 these fiber zones within the ore sent to the The second sentence reads, "Cyprus 12 mills; right? 13 maintains a selective mining program in Vermont 13 MS. O'DELL: 14 that is directed towards exclusion of all these 14 Object to the form. <sup>15</sup> potentially fiber-bearing zones when the ore is The -- the implementation of the <sup>16</sup> sent to the mills, and those suspect tonnages, <sup>16</sup> selective mining is -- is -- I think that that <sup>17</sup> including the associated talc, are left in the was part and parcel of -- of several agreements <sup>18</sup> pit walls or sent to waste piles." 18 that actually stated that in order to -- to -- to 19 Right? 19 make these operations worthwhile and profitable, 20 A 20 they had to have selective mining. And, so, from I see that. So you agree with me that this 21 that -- from that standpoint, they have to --21 **Q** <sup>22</sup> indicates that Imerys knew that they had to be 22 they have to do it. They have to -- they had 23 selective of the mining in the --<sup>23</sup> agreed to do it. 24 MR. FROST: 24 MR. FROST: Page 191 Page 193 1 Q Okay. And, in fact --Yeah. 2 <sup>2</sup> MS. O'DELL: Sorry. I'm just putting in front of him the 3 A And, so, you know, the point that I 4 would make is that -- that we asked for all the <sup>4</sup> documents. 5 MR. FROST: <sup>5</sup> documents that would demonstrate this, and we did The documents? That's fine. 6 not receive them. 7 **Q** 7 O You agree with me with that statement? Well ---<sup>8</sup> You know, that shows that Imerys knew that they And -- and, so, if we -- if we don't <sup>9</sup> had to -- they couldn't use all of the ore body; 9 have a way to verify the fact that they 10 implemented a selective mining, then -- then 10 correct? 11 we're left with -- with, you know, with a lot of 11 MS. O'DELL: 12 Object to the form. 12 data that -- that suggests that -- that maybe 13 A That's correct. 13 they didn't. Maybe they just saw white rock and 14 went for it. 14 MR. FROST: Okay. And, again, you're speculating 15 O And it also, you know, indicates that 15 **Q** 16 they could tell the difference between what was, on whether or not they implemented this or not you know, effectively the ore and the fibrous because you haven't seen all of the data; right? 18 waste; right? MS. O'DELL: 19 19 MS. O'DELL: Object to the form. 20 Object to the form. 20 A We asked for the data. 21 MR. FROST: Would you ask it again? 21 A 22 MR. FROST: 22 **O** Okay. And I want to unpack that a bit. 23 By we -- by "We asked for the data," 23 **Q** Sure. <sup>24</sup> you mean you asked plaintiffs' counsel to give 24 And it also indicates that they knew

Philad 08/22/24 Page 51 of 130 Page 196 Page 194 1 you all the documents? <sup>1</sup> being done and how potentially effective it was 2 A <sup>2</sup> at all stages of the mine life; correct? I asked them to ask for them. Okay. And you have no way to verify <sup>3</sup> MS. O'DELL: <sup>4</sup> whether what -- the selective set of documents Object to the form. 5 they gave you contains all of the data that might The data I have supports the opinion 5 A <sup>6</sup> relate to selective mining; correct? <sup>6</sup> that I have that -- that there may not have been <sup>7</sup> MS. O'DELL: <sup>7</sup> sufficient selective mining to eliminate all of 8 8 the -- the waste that should have been Object to the form. I have no way to know. But -- but it 9 A <sup>9</sup> eliminated. 10 wouldn't make sense for them not to -- to give me <sup>10</sup> MR. FROST: <sup>11</sup> everything they've got that I asked for. 11 **Q** Okay. And you'd agree that that 12 MR. FROST: <sup>12</sup> opinion is solely based on the data you had 13 O Well, except for the fact that they're <sup>13</sup> available to you? 14 A <sup>14</sup> pursuing theories in these cases, so maybe they That's correct. <sup>15</sup> selected the documents that specifically support <sup>15</sup> O And, again, I think we've established <sup>16</sup> their theories; correct? That's a possibility. <sup>16</sup> you'd be open to reviewing other data, and if 17 A Well, I'm not sure that what they sent <sup>17</sup> it --18 A Absolutely.

<sup>18</sup> me supports their theories.

Okay. But, again, without speculating, 20 you can't tell me one way or the other what the

<sup>21</sup> full intent was of the selective mining program

<sup>22</sup> at Imerys; right? You just don't know if there

<sup>23</sup> was more, if there's less. You know, you can't <sup>24</sup> tell because you don't know if you have all the

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Object to the form.

3 Object to the form.

I don't -- I would think that I don't 4 A

<sup>5</sup> have all the documents. But in -- in a mining

6 scenario, it's -- it's common for documents to

<sup>7</sup> get destroyed once you're past where you are 8 mining.

<sup>1</sup> documents. Is that fair?

<sup>2</sup> MS. O'DELL:

And, so, it's possible that -- that

<sup>10</sup> there were documents that don't exist anymore.

11 MR. FROST:

12 **Q** Okay.

13 A But selective mining is gonna be tough

14 in some of these, especially underground. I

15 mean, it's pretty clear that it -- that it --

16 that they needed to get -- get out of underground

<sup>17</sup> as quickly as they could at Hammondsville and at

<sup>18</sup> Johnson.

19 **Q** 

20 A That -- that's a difficult thing to do

<sup>21</sup> selectively.

22 **O** You'd agree with me, one way or the

23 other, you don't have sufficient evidence to make

<sup>24</sup> concrete opinions about what selective mining was

<sup>1</sup> additional data that comes along.

<sup>2</sup> MR. FROST:

<sup>22</sup> MS. O'DELL:

19 **O** 

23

24 A

<sup>21</sup> data?

Turn to page 8 of your report, please,

-- supported a different opinion, you'd

I'm -- I'm willing to look at -- at any

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<sup>20</sup> be willing to change your opinion based on that

<sup>4</sup> last paragraph on the page.

5 A Okay.

About halfway down, it's a sentence 6 O

<sup>7</sup> that starts, "It is known that Rio Tinto" --

8 A Okav.

9 **O** -- "identified problems with long

10 Guangxi talc ores in 1997 which resulted in the

11 recommendation that a Luzenac representative be

12 present at the mine during the mining and sorting

13 process."

14 A Correct.

15 **Q** Correct?

16 And then you cite Imerys-A15758?

Right. Correct. 17 A

MS. O'DELL:

19 Are you gonna mark that, Jack?

20 I'll take this one.

21 What's the number?

22 MR. FROST:

Fourteen?

24 THE COURT REPORTER:

Page 200 Page 198 1 Yes. <sup>1</sup> address it, they're talking about the Cimpact 10 <sup>2</sup> problems that --<sup>2</sup> MS. O'DELL: 3 **A** 3 Thank you. Yeah. (DEPOSITION EXHIBIT NUMBER 14 4 Q 4 -- they had at Grand Island. <sup>5</sup> MS. O'DELL: WAS MARKED FOR IDENTIFICATION.) Excuse me. Object to the form. 6 MR. FROST: 7 Q 7 A And I'll turn your attention Yeah. 8 specifically under -- under "Introduction." 8 But if they weren't having quality 9 A Okay. control problems at both places, why would they 10 mention both places? Doesn't make sense. 10 O Do you agree with me it talks about <sup>11</sup> quality control issues with Cimpact 10? 11 MR. FROST: 12 A Okay. 12 **O** What do you mean by "both places"? 13 **Q** And you can review the rest of it, but 13 A In the summary. They're talking about <sup>14</sup> will you also agree with me that the Cimpact 10 14 the Cim- --<sup>15</sup> ore is different than the Guangxi number 1 and Well, they're talking about Guangxi 1, 16 the Guangxi number 2 ores? <sup>16</sup> and, so, you've got two separate things you're 17 A I think it is. talking about, but they're talking about issues 18 **Q** So you agree that the problems <sup>18</sup> with both of them. 19 identified that this document are specifically Where in this document does it point <sup>20</sup> addressing are the Cimpact 10 quality control <sup>20</sup> out that they have problems with the testing of 21 issues; correct? 21 the Guangxi 1 ore? 22 A 22 A Hang on a sec. In the -- in the summary of this 23 MS. O'DELL: <sup>23</sup> document. 24 If you need a minute to review the 24 **O** And you're talking about where it talks Page 199 Page 201 <sup>1</sup> document, Doctor, feel free to do that. <sup>1</sup> about, at the very beginning --2 A In the introduction, they are fairly Right. <sup>3</sup> clear that they're worried about Guangxi, not 3 O -- where they say "New specifications 4 should go into," and they're talking about the <sup>4</sup> Cimpact. <sup>5</sup> MR. FROST: <sup>5</sup> Guangxi number 1 crew? But they're talking about the quality Why would they need any specifications <sup>7</sup> if they weren't having problems? <sup>7</sup> control problems with Cimpact; correct? Well, it --8 O But, again --8 A 9 MS. O'DELL: 9 A That's the way I read it. 10 Object to the form. 10 **O** I was going to say, but -- that's how Well, it's not just them. It's -- and 11 A 11 you're reading it, but you agree with me the <sup>12</sup> I'm reading up in the summary. It's indicated <sup>12</sup> document itself only talks about problems that 13 the need for better technical and probably 13 have come up with the Cimpact 10 crew --<sup>14</sup> mineralogical specifications for the Guangxi 14 A Yeah, after the --<sup>15</sup> number 1 crude. So they're including at least <sup>15</sup> MS. O'DELL: <sup>16</sup> some Guangxi in this. 16 Excuse me. Just let him finish and <sup>17</sup> MR. FROST: then give me a minute. Okay? Are you finished with your question? 18 O Well, they're talking about they want 18 19 to implement a program for both Cimpact and MR. FROST: <sup>20</sup> Guangxi; correct? 20 Yes. 21 A Right. 21 MS. O'DELL: <sup>22</sup> O And then when they specifically talk Object to the form. Misstates the <sup>23</sup> about the quality control problems, you'll agree <sup>23</sup> document. <sup>24</sup> with me, down in the introduction, as they <sup>24</sup> MR. FROST:

Page 204 1 O You'd agree with me the only specific, Object to the form. <sup>2</sup> MR. FROST: 2 you know --Okay. And, again, if we look at When they actually talk about the 3 **O** <sup>4</sup> problems that have come up, they're only talking <sup>4</sup> Grand Island, it talks about June 24 samples of <sup>5</sup> about problems that have been identified in the <sup>5</sup> Cimpact 10 lot. <sup>6</sup> Cimpact 10 or Cimpact 710 ore; correct? That's on the bottom of page 2. <sup>7</sup> MS. O'DELL: <sup>7</sup> MS. O'DELL: 8 Where are you reading? Object to the form. Well, I -- I don't agree with that at 9 A <sup>9</sup> MR. FROST: <sup>10</sup> all. If you go to the second page, about midway 10 **Q** Right? I've read the document 11 down, they start again about Guangxi number 1 11 correctly? <sup>12</sup> crude. <sup>12</sup> MS. O'DELL: 13 MR. FROST: Okay. Were you on page 2, not page 1? 14 Q Okay. MR. FROST: And, so, I mean, I'm not sure that --Yes. <sup>16</sup> why we're making -- why we're saying it's only <sup>16</sup> MS. O'DELL: <sup>17</sup> Cimpact, because it's -- they're talking about And, Dr. Cook, were you -- I mean, <sup>18</sup> Guangxi crude here. don't respond that he's read it correctly --But where are they talking about MR. FROST: <sup>20</sup> quality control problems they've identified with 20 Yeah. <sup>21</sup> Guangxi 1 crude? MS. O'DELL: I -- I think that's what they're 22 A No, I don't mean this pejoratively. <sup>23</sup> addressing. You know, they're trying to <sup>23</sup> MR. FROST: <sup>24</sup> respecify what they need. No. I think the witness and I were on Page 203 Page 205 But you're speculating, based on new 1 O <sup>1</sup> the same page. <sup>2</sup> specifications, that they have found some <sup>2</sup> MS. O'DELL: <sup>3</sup> undocumented problem with the Guangxi number 1 I don't think you were, because he <sup>4</sup> crude despite the fact that they only list issues <sup>4</sup> wasn't looking at that. So the -- I don't mean this in a <sup>5</sup> with the Cimpact 710? 6 pejorative sense --6 A I'm not sure --<sup>7</sup> MR. FROST: <sup>7</sup> MS. O'DELL: Object to the form. No. I'm not sure that's right. It looks to MS. O'DELL: 9 A 10 me like this document is addressing Guangxi 10 -- but --11 number 1 and the other. 11 Let me finish. 12 MR. FROST: So if you -- there's a specific 13 **Q** As far as the specifications; right? 13 question that you asked about page 2, I wanted to Well, with the thought in mind that 14 make sure that the doctor understood where you 14 A 15 these need to be changed for some reason. <sup>15</sup> were in the document. Okay. And, again, it seems -- it's not 16 O <sup>16</sup> MR. FROST: 17 "seems." It says -- the document itself says the 17 Sure. 18 bases for the wanting to change are, quote, You know, if you go beyond what you <sup>19</sup> "after several episodes of quality control 19 just read, I mean, there's more to this document 20 problems with the Cimpact 10 and product at the 20 than just that. <sup>21</sup> Grand Island during the first quarter of 1997." If you go to the next page, there they 22 Correct? <sup>22</sup> are looking at Guangxi number 1 again --23 MR. FROST: 23 A Right. 24 MS. O'DELL: 24 O Uh-huh. And it shows --

Page 206  1 A — as if there's some issue there. 2 Q Well, that's just showing the testing 3 results, as it said. But the only place it ever 4 shows quality control problems is on page 1, 5 under the introduction; correct? 6 MS. O'DEIL!. 7 Object to the form. 8 A Hang on a second. 9 You have to really wonder, because the 10 table that they've got here on page 3 shows 11 silica out of spec for Guangxi 1. 12 So it seems to me that they — that 13 they realized that they may have an issue and 14 that this document is simply pointing it out, 15 says, "Lest ighten things up." 15 MR. FROST: 17 Q Again, that's your interpretation of 18 this document. It's clearly not what the 19 document says; correct? 20 MS. O'DEIL!. 31 Tead. 32 Q Okay. It shows the testing results. 4 Again — 22 A Tm not — Tm not sure it doesn't say 23 that. I mean, you read this part here correctly, 4 but there's more to the document beyond what you  10 Page 207  1 read. 4 A gain — 5 A Right. And it shows something else — 5 Q Let's walk through it. You ready? 7 A — out of spec, I think. 10 Q Okay. But does it say there are 12 quality control issues with respect to— 13 A Well, I mean, what else is going on, 14 other than quality control? 15 Q Okay. 16 A It's my opinion that this — that this 17 has to do with quality control. 18 A Clay and the second of this document. It's clearly not what the definitions of counsel if you don't agree with them. 19 document says; correct? 20 But, again, that's your interpretation of of this document. The actual document itself— 21 A It's my opinion that this — that this 22 has to do with quality control? 23 Q Okay. 24 A And they have included both types here. 25 Q But, again, the document itself only 26 talks about quality control problems with the 27 Cimpact lo product at Grand Island; correct? 28 MS. O'DEIL!: 29 Okay. You agree with me that flotation 29 Okay. 20 Okay. You agree with me that flotation and experience of particular that the shown and produce the seminary in the produce of the merical and produce the prod		Pageint 238	ροκ, Ph.D.
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Philo 08/22/24 Page 55 of 130 Page 210 Page 212 1 A I agree. 1 A Yeah. It has to do with the type of 2 **Q** <sup>2</sup> mill. I mean, the mill was set up originally for Okay. In fact, there are bunches of <sup>3</sup> different types of beneficiation? <sup>3</sup> baryte, and -- and it uses a -- an interesting <sup>4</sup> air separation technique. And -- and I think 4 A Correct. 5 O <sup>5</sup> it's probably very effective for talc. And the documents you cite here <sup>6</sup> specifically talk about how Imerys determined But there's -- there's nothing in that <sup>7</sup> that flotation beneficiation was necessary for <sup>7</sup> type of a process that would address heavy metals 8 the Vermont ores: correct? 8 at all, unless the heavy metals were restricted to some extremely dense accessory mineral. And I Yeah. You use the flotation process if 10 don't think we've got evidence for that in the 10 you -- if you've got a talc carbonate ore. 11 You've got to get rid of the carbonate. <sup>11</sup> Chinese talc. 12 **Q** 12 **Q** Okay. Okay. And what are you relying on to 13 A And, so, that's why you float. 13 say --14 14 O So you agree with me the fact that they Well, I guess strike that. <sup>15</sup> weren't using flotation on the Chinese ore So is this limited, when we're talking <sup>16</sup> doesn't show that there was necessarily a <sup>16</sup> here, we're limiting it to the heavy metals? breakdown of the process. They were just using a MS. O'DELL: <sup>18</sup> different form of beneficiation? Object to the form. 19 A Right. Right. There's no carbonate in No. I mean, the same is true if there 20 the -- to speak of in the -- in the Chinese ores. was asbestos in any of the crude that came in. <sup>21</sup> Probably it would pass on through with the talc. 21 **O** Okay. The next paragraph down, you <sup>22</sup> talk about quality control. Do you see where I 22 There's nothing set up there in Houston that <sup>23</sup> am? "Quality control issues are discussed" --<sup>23</sup> would specifically cut the -- any asbestiform 24 mineral out. 24 A Okay. Page 211 Page 213 -- below in the report? 1 O <sup>1</sup> MR. FROST: 2 A Sure, uh-huh. So you used the word "probably." Do 3 **O** Sort of halfway through that sentence <sup>3</sup> you have any scientific study or research to show <sup>4</sup> you said, you know -- it says, "makes it clear 4 that the various air beneficiation processes used <sup>5</sup> non-talc material such as asbestos and high <sup>5</sup> at the Houston mill would be completely incapable <sup>6</sup> concentrations of some heavy metals are included 6 of removing asbestos from the ore? <sup>7</sup> in the finished products." 7 A Well, I didn't --8 A Sure. 8 MS. O'DELL: 9 O Are you talking about the ore or are Object to the form. 10 you talking about finished talcum product, like Right. I didn't say it was completely 11 finished talcum powder, in the sentence? 11 incapable. What I -- what I said was that I 12 A No. I'm talking about the finished 12 don't think there's anything in the -- in the <sup>13</sup> product. 13 system there now that would cut a -- a 14 **Q** 14 asbestiform mineral out of the -- out of the All right. 15 A There's nothing in the Houston mill airflow, you know, once the grinding process has 16 that's gonna get out heavy metals. And if there <sup>16</sup> been done.

<sup>17</sup> happened to be some asbestos, I don't think that

18 that plant -- I mean, it's not set up to handle

<sup>19</sup> that. So...

20 **Q** And the basis of your opinion on that

21 is --

Have you looked at any sampling data?

<sup>23</sup> Have you looked at any research or literature

<sup>24</sup> regarding that?

17 And, you know, I'm sure there's lots

of, you know, papers on physical metallurgy

19 that'll back that up.

20 MR. FROST:

21 **Q** Can you cite me any right now that

22 would back up the fact that --

23 A I -- I had some --

24 O -- this design --

_			JOU	
		Page 214		Page 216
	1	A when I came in here, and I can't	1	MS. O'DELL:
	2	remember them.	2	Object to the form.
	3	Q Okay.	3	A Every spec sheet I've been given is out
	4	A No, I can't remember them.	4	of is out of compliance.
	5	Q So, sitting here today, you can't tell	5	MR. FROST:
	6	me that?	6	Q See, that's a very different answer,
	7	A No.	7	now, isn't it, between every single sample is out
	8	Q Okay. Can you agree with me you've	8	of compliance versus every single sample that was
	9	never actually yourself tested any	9	given to you by plaintiffs' counsel? Do you
:	10	A No.	10	agree?
-	11	Q Johnson & Johnson talcum powder?	11	MS. O'DELL:
-	12	MS. O'DELL:	12	Object to the form.
:	13	Let him finish with the question, sir.	13	A I'm not sure that they aren't the same
:	14	THE WITNESS:	14	thing.
:	15	I'm sorry.	1	MR. FROST:
	16	A No, I have not.	16	Q You have no way to verify, so you
-	17	MR. FROST:	17	believe you've been shown every single sample of
-	18	Q And your role here isn't to testify	1	Vermont 66 that exists?
:	19	that any particular level of heavy metals made it	19	A I think that
2		into any finished product, like any	20	MS. O'DELL:
2	21	I'll strike I'll I'll rephrase	21	Excuse me. Object to the form.
2	22	that question.	22	Just note that's a very different
2	23	You're not here to offer an opinion	23	question.
2	24	that any particular bottle of Johnson's	1	MR. FROST:
		Page 215		Page 217
	_	_		_
		Johnson & Johnson talcum powder had any	1	Okay. You can object to the form.
	2	Johnson & Johnson talcum powder had any particular level of heavy metals or asbestos in	2	Okay. You can object to the form. MS. O'DELL:
	2	Johnson & Johnson talcum powder had any particular level of heavy metals or asbestos in it; right?	2 3	Okay. You can object to the form.  MS. O'DELL:  I will object to the form, because
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	Page 218		Page 220
1	Object to the form.	1	for example, and you're basing this off of 19
2	A If there's thousands of	2	test results despite the fact the product has
3	MS. O'DELL:	1	been on the market for over a hundred years?
4	Excuse me. Excuse me.	4	MS. O'DELL:
5	Object to the form. Misstates the	5	Object to the form. Misstates his
6	record.	6	testimony.
		7	A Yeah. That that I don't see how
8	ones, then that implies I haven't seen them,	8	that question is relative to to anything
9	which is true.		because of the going-back-hundred-year idea. I
10			
11		1	mean, probably it's true if you could go back a
		1	hundred years. But I know that the data that
	opinion? Because this this appears to be		we've got I mean, it's more than just the
	based on the fact that you're saying every single		19-year collection of annual composites.
	test you've seen is out of spec. Would it change	14	I mean, that's just a subset of a much
	your opinion if you were to see a significant		larger data set we've got. I can't tell you how
	collection of documents that showed a very	l	many analyses we've got, but it's many hundreds.
17	different result?	17	And there isn't a single data set we've got
18	MS. O'DELL:	1	that that puts nickel, cobalt, or chromium in
19	Object to the form.	19	spec. Not a single one.
20	A The the data that we've got for the	20	MR. FROST:
21	annual composite samples, I think we've got	21	e study. Time by the speed, while the year
22	annual composites for 19 years. And every one of	22	referring to?
23	them's out of spec.	23	A Ten parts per million.
24	So if you if and, so, if you come	24	Q And where are you getting the spec
		-	
	Page 219		Page 221
1	Page 219	1	Page 221 from?
	up with eight more years worth of annual		from?
2	up with eight more years worth of annual composites, I'm gonna bet you that they're gonna		from? A It's my value.
3	up with eight more years worth of annual composites, I'm gonna bet you that they're gonna be out of spec, too. Because these 19 we've got	2	from? A It's my value. Q I mean, what is the spec?
2 3 4	up with eight more years worth of annual composites, I'm gonna bet you that they're gonna be out of spec, too. Because these 19 we've got are are staggered in time.	2 3 4	from?  A It's my value.  Q I mean, what is the spec?  A That's what was given in testimony
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2 3 3 4 4 5 6 6 7 8 8 9 100 111 122 133 144 155 166 177 188 199 200 211 222	up with eight more years worth of annual composites, I'm gonna bet you that they're gonna be out of spec, too. Because these 19 we've got are are staggered in time.  MR. FROST:  Q Okay. But, again, you're looking at 19 over, I think, a 115-year history of A No. These are the annual Well, no.  Q of the product. A That is not correct. No. The we didn't start getting any analytical data for heavy metals before, say, 1970. And I don't think anybody cared, really, prior to that.  Q Okay. So, again, you're making generalizations A No generalization.  Q based on A I'm telling you fact.  Q Again, you have to go back to my original question that was you can sit here and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	from?  A It's my value.  Q I mean, what is the spec?  A That's what was given in testimony in depositions, and it's in lots of documents where the heavy metals are being reported as 10 ppm lead max, and that was an old-time way of reporting a group of metals you reported as lead because there was a point in time when everybody was terrified of lead. They were so worried about lead because of their their children. You know, it impacts the mental ability of children.  Q Okay. Can you you have no opinion as to what level of cobalt is required to cause human disease, do you?  A I think cobalt is is a Group 2 element Q Listen to my question, though, sir. Do you have an opinion as to what level MS. O'DELL:
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Page 222 Page 224 1 You may answer. <sup>1</sup> MS. O'DELL: 2 A Yeah. I was gonna -- I was gonna say He's --3 that if you're thinking of cancer, there may be <sup>3</sup> MR. FROST: 4 one level, but if you go -- if you go and try to We're on my time. <sup>5</sup> pull the acceptable levels from -- from various MS. O'DELL: <sup>6</sup> governmental agencies, you find some really No. He's not --<sup>7</sup> strange things because it depends on the medium MR. FROST: 8 that you're working with. No. My question is whether or not he Like if you were running a landfill, believes he's an expert --MS. O'DELL: 10 then the --11 MR. FROST: 11 You cannot interrupt him. 12 **O** I'll stop you here because I'm just <sup>12</sup> MR. FROST: 13 very confused by this. You're not a Leigh, my question is whether or not --14 toxicologist; right? 14 MS. O'DELL: Right. 15 A He's trying to answer the question. 16 Q And you're not here to offer any <sup>16</sup> MR. FROST: <sup>17</sup> opinions as to whether or not --17 -- he believes he's an expert. 18 A I'm trying to answer your question. <sup>18</sup> It's a "yes" or "no" question. 19 **Q** Well, no. That's why -- I was trying 19 A I've answered that over and over. I <sup>20</sup> said no. 20 to get at that, and that's --You know, my question really is you're <sup>21</sup> MR. FROST: 22 not here to offer any opinions that say a <sup>22</sup> **Q** That's what I'm saying. <sup>23</sup> particular level of cobalt or a particular level 23 A Yes, I have. And I said "no." <sup>24</sup> of nickel found in a product can cause human 24 **O** I know. And that's what I'm getting Page 223 Page 225 <sup>1</sup> disease; right? <sup>1</sup> at. But now you seem to be offering opinions <sup>2</sup> MS. O'DELL: <sup>2</sup> about levels of heavy metals that could be in Object to the form. And I would just <sup>3</sup> talcum powder that can cause disease. <sup>4</sup> ask if you'd let the witness finish before you Are you here to offer an opinion about <sup>5</sup> interrupt him, please. <sup>5</sup> that today? If your answer --6 6 MS. O'DELL: 7 A Nickel and chromium and arsenic, I Excuse me. 8 think that there's plenty of evidence that the He's trying to answer your question <sup>9</sup> limits are way lower than what -regarding the specification, so let him answer. 10 Well, maybe not arsenic. But -- but I THE WITNESS: 11 think with respect to cancer, nickel and chromium 11 Yeah. <sup>12</sup> are pretty well established. MR. FROST: But -- but the point is that But, again, that's the question as <sup>14</sup> you're framing it. It's not the actual question <sup>14</sup> Johnson & Johnson established its own limits. 15 I asked. <sup>15</sup> MR. FROST: <sup>16</sup> MS. O'DELL: 16 O Sir, can you please listen --17 <sup>17</sup> MS. O'DELL: I think he --18 A 18 Let's --Well, I'm gonna answer it. I don't 19 MR. FROST: <sup>19</sup> care whether you like it or not. 20 Johnson & Johnson set its specs. The No, no. 21 MS. O'DELL: 21 specs have to be there for a reason. And the <sup>22</sup> specs are quite low, and the talcum powder 22 Excuse me. <sup>23</sup> product, it exceeds them. I mean, it's as simple 23 MR. FROST: <sup>24</sup> as that. I'm not saying it's causing --24 He's not answering my question.

Page 228 Page 226 I mean, it could be causing gum <sup>1</sup> MS. O'DELL: <sup>2</sup> disease. I don't know. But it's their specs I'm Object to the form. <sup>3</sup> referring to. 3 **A** Absolutely. 4 MR. FROST: <sup>4</sup> MR. FROST: 5 O Okay. And that's my question. Okay. All right. Turning to the Their own specifications. <sup>6</sup> "Mineralogy" section of your report that starts 6 A 7 **Q** And you can't tell me if out of spec <sup>7</sup> on page 9. 8 has any -- you know, whether or not any 8 A Okay. <sup>9</sup> particular level, in spec or out of spec, has any Can you point me to a specific Q 10 potential concern for causation of human disease; geological report that you rely on that talks <sup>11</sup> about the geological deposit of the Jhizhua talc 11 correct? 12 A I am gonna leave that to the experts mine, in the Guangxi province of China? 13 who I'm sure will have lots to say about that. 13 A Yeah. There --14 **Q** And that's what I was trying to get at, 14 MS. O'DELL: <sup>15</sup> sir. On page 9? 16 A Okay. <sup>16</sup> MR. FROST: 17 **Q** That's not your area of expertise. 17 It starts on the -- the section starts Well, I've answered that question over on page 9. I'm talking about Section B, <sup>19</sup> and over again. I'm not an expert in toxicology. <sup>19</sup> "Mineralogy," in general. <sup>20</sup> MS. O'DELL: 20 **O** Okay. Then next time, don't explain 21 something that you're not into. Okay. And you're directing him to the <sup>22</sup> section on China beginning on page 12? Well, you asked the question, and I <sup>23</sup> tried to give you the knowledge that I had. But 23 MR. FROST: 24 the basis for my statement is the fact that there Yeah. I'm not directing him to any Page 227 Page 229 <sup>1</sup> are set specifications that were made by <sup>1</sup> specific. It was a general question, and that <sup>2</sup> Johnson & Johnson, and the analyses exceed that. <sup>2</sup> was, you know, what geological studies do you <sup>3</sup> I mean, it's just as simple as that. 3 have that relate to --4 O Okav. I think the two that I've referenced 5 A I'm not trying to say anything more. <sup>5</sup> that are actually published reports. I was gonna say, and that's -- that's 6 MR. FROST: <sup>7</sup> what I'm trying to get at. That's all you're 7 **Q** Do you recall which ones those are? 8 saying --I don't remember the authors. But 9 A <sup>9</sup> they're modern reports. And, plus, just recently Yeah. 10 O -- is that you looked at a set of specs <sup>10</sup> we got a copy of the geologic map for the mine, <sup>11</sup> and your opinion is that, based on the testing <sup>11</sup> which was helpful. 12 results you've been given, they're outside of 12 **Q** And for Vermont, do you rely on any 13 those specs. 13 very -- you know, any of the specific geological 14 reports that relate to Hammondsville, Hamm, 14 MS. O'DELL: 15 <sup>15</sup> Argonaut, or Rainbow specifically? Object to the form. It's not an opinion. They are outside <sup>16</sup> MS. O'DELL: 16 A <sup>17</sup> of the specs. 17 Object to the form. Vague. The -- yeah. There are specific 18 MR. FROST: 19 **Q** Well, we call it an opinion --19 reports like there's a U.S. Bureau of Mines 20 A 20 report that's -- that's good on the Johnson mine, It's just a fact. It's a fact. 21 Okay. An opinion. <sup>21</sup> and there's the Barry Seymour thesis that's

24 that you reviewed, they were out of spec?

<sup>23</sup> rendering is that, based on the testing results

But that's -- that's the opinion you're

22 **Q** 

<sup>22</sup> pretty good on Johnson. There are two reports on

<sup>23</sup> Hammondsville that I looked at. One was by the

<sup>24</sup> School of Mines, Colorado School of Mines. One

- <sup>1</sup> was by Gregg. Then there's a whole series of <sup>2</sup> documentation on -- on Argonaut, many reports on
- 3 Argonaut that --
- 4 MR. FROST:
- 5 O Okay. You mentioned the Johnson mine.
- <sup>6</sup> Again, we established before, but for that one
- <sup>7</sup> reference that talks about --
- I forget the ore numbers. I believe
- <sup>9</sup> they're 500 -- 507.
- You have nothing else -- you certainly
- 11 have nothing to show that Grade 66 talc ever came
- 12 from the Johnson mine; correct?
- 13 MS. O'DELL:
- 14 Object to the form.
- I'm not sure about Grade 66. I don't
- 16 know what they called it when Johnson mine was
- 17 operating.
- I think that I have one other document
- 19 that -- that would indicate that for a short
- <sup>20</sup> period of time cosmetic talc was produced at
- <sup>21</sup> Johnson.
- 22 MR. FROST:
- But you agree with me the only document
- <sup>24</sup> we've been able to come up with thus far, I

<sup>1</sup> misidentification of platy talc lying on plane as

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- <sup>2</sup> potentially fibrous?
- <sup>3</sup> MS. O'DELL:
- Object to the form.
- 5 A I think that that's something that is
- <sup>6</sup> fairly common. You turn a plate on edge, it
- <sup>7</sup> looks like fiber.
- 8 MR. FROST:
- 9 Q Yeah. And that's because most of the
- <sup>10</sup> microscopes are 2D as opposed to 3D image?
- 11 A Correct.
- 12 MS. O'DELL:
- 13 Object to the form.
- 14 A I -- can you -- can you ask or make
- that statement again about the 2D versus 3D?
- <sup>16</sup> MR. FROST:
- 17 O And that's because when you're looking
- <sup>18</sup> at a 2D image, it's hard to tell if you're
- 19 looking at something on plane or on edge?
- 20 A That's kind of an -- that's an
- 21 interesting comment, because when you're using a
- <sup>22</sup> polarized light microscope, if you're just using
- <sup>23</sup> a ground-up talc sample, the way you do that, you
- 24 put a little pinch of the talc on a glass slide

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- <sup>1</sup> believe, was Grade 500 and 549, according to my
- <sup>2</sup> notes --
- <sup>3</sup> MS. O'DELL:
- Objection.
- <sup>5</sup> MR. FROST:
- -- for the grades that were coming out
- <sup>7</sup> of the Johnson mine?
- 8 MS. O'DELL:
- 9 Object to the form. Misstates --
- 10 A That was -- that was what it said at
- 11 the place that you pointed to.
- 12 MR. FROST:
- Okay. And you agree that Grade 500 or
- 14 Grade 49 [sic] would be different than Grade 66,
- 15 which was also listed --
- 16 A I would think so.
- 17 **Q** -- on that document?
- Have you ever done any work identifying
- <sup>19</sup> talc as either platy or fibrous in your academic
- <sup>20</sup> career?
- 21 A I have not.
- 22 **Q** Are you aware -- I'll call it the
- 23 contour, but it's probably the wrong word for it.
- 24 But are you aware that there's a problem with

- <sup>1</sup> and then you put a drop of refractive index oil
- <sup>2</sup> on it. That does tend to make the plates lay
- <sup>3</sup> down.
- 4 Q Okay.
- And it would reduce the -- probably
- <sup>6</sup> reduce the number of those standing on edge.
- <sup>7</sup> And, so, from the standpoint of are you always
- 8 looking at two-dimensional materials, it's
- probably not right.
- 10 If you used a binocular scope, which
- 11 some people do, for the initial examination, that
- <sup>12</sup> certainly gives you some depth of field, which
- <sup>13</sup> then translates into 3D.
- Okay. I guess my comment was sort of a
- 15 nonscientific way. And that's the images, it's,
- 16 you know, flat plane versus edge --
- <sup>17</sup> A Right.
- 18 O -- and the edge can be mistaken for
- 19 fiber: correct?
- <sup>20</sup> A Correct.
- 21 **O** Okay.
- 22 All right. Page 10 of your report
- <sup>23</sup> under the section of "Italy."
- 24 A Okay.

Page 236 Page 234 1 O It reads, "Deposits derived from 1 O Okay. Do you have the marked document <sup>2</sup> sedimentary carbonate rock, such as the Italian <sup>2</sup> in front of you? Okay. If you look at the report, the <sup>3</sup> deposits, typically contain accessory minerals 4 that may include asbestos (actinolite and 4 first document you cite to is JNJ\_00030983. And <sup>5</sup> tremolite in asbestiform habits) and the chlorite <sup>5</sup> do you agree that's the document I've put in 6 front of you? 6 family minerals." I don't know. It doesn't look like it. 7 7 A Right? 8 8 A Correct. Oh, wait a minute. 9 Q 9 Q And then, you know, you continue on to Look at the very -- the very bottom 10 talk about Pooley, and you cite, you know, the <sup>10</sup> right. <sup>11</sup> various documents. I can read the whole thing if 11 A Yeah. There's three different sets of 12 you want. But at the end of that you say various 12 numbers on this thing. I'm not even sure this is 13 different documents, right, that support that 13 the right document. 14 position? 14 MS. O'DELL: 15 A 15 Yeah. That ---16 O 16 MR. FROST: Okay. 17 17 O Well, that's what I was gonna say is I'll mark -- what number are we at? 18 THE COURT REPORTER: 18 that I can tell you this is the document that was 19 produced as JNJ\_00030983. And you agree with me 19 15. 20 this is -- appears to be an epidemiological <sup>20</sup> MR. FROST: 21 study, not a -- not a mining study; correct? I should be able to get through this Yeah. And this is -- this is my fear 22 pretty quickly, Leigh, and then we -- then we <sup>23</sup> can -- we can break. <sup>23</sup> all the way through here, you know. When I've 24 gotten multiple Bates numbers on things, I have 24 MS. O'DELL: Page 235 Page 237 Yeah. If we could break at 2:50 --<sup>1</sup> to pick one. And this -- I don't think this is a <sup>2</sup> document that I've looked at. <sup>2</sup> MR. FROST: 3 Yeah. 3 **Q** Okay. 4 MS. O'DELL: 4 MS. O'DELL: -- that would be -- because I need And, to be fair, it's -- it's -- this 6 is the -- what's been given to him is J&J, not J, 6 to --<sup>7</sup> capital N, J. So it's not identical to what's in <sup>7</sup> MR. FROST: Yeah. I think we can get through the 8 his report. So I would just point that out. I'm next set of documents in five minutes. Should --9 not sure if that's --10 MR. FROST: <sup>10</sup> MS. O'DELL: 11 No, no. Look at the very bottom 11 Okay. 12 MR. FROST: 12 number, JNJ, bottom right hand. 13 MS. O'DELL: 13 I should be able to do it. 14 MS. O'DELL: Oh, I see. But still, I'm not sure I need -- we need a little bit of time 15 15 that -- that -- it's not underscore. So I -- I <sup>16</sup> don't believe it's the same one. But if there's 16 to get --<sup>17</sup> MR. FROST: an error on the Bates number, we'll address that. 18 Yeah. No. I get it. 18 MR. FROST: 19 MS. O'DELL: 19 I will say as production, this is the 20 -- prepared for the call to the court. one that matches the JNJ\_, et cetera. 21 21 I have marked this one as the next one. Thank you. 22 2.2 (DEPOSITION EXHIBIT NUMBER 15 (DEPOSITION EXHIBIT NUMBER 16 WAS MARKED FOR IDENTIFICATION.) WAS MARKED FOR IDENTIFICATION.) 24 MR. FROST: 24 MR. FROST:

<i>.</i>	Replie to the replication of the	136	7. Ph.D. Ph.D.
	Page 238		Page 240
1	Q I think you're gonna recognize this	1	quality, purity, uniformity and reliability of
2	document. So this is the second document in the	2	supply, outstanding performance for many years
3	series.	3	when compounded into Johnson's baby powder."
4	A I am gonna recognize it?	4	A Right.
5	Q JNJ000016791.	5	Q Okay. All right. This last one I'll
6	A Yeah.	6	mark, and then we can break.
7	Q Again, this is a	7	So this is the Pooley report, which is
8		8	JNJ322351.
9	Q Seems to be a better copy of the same	9	A Is this the long one or there's
10	document.	10	there's multiply Pooley reports.
11	A Yeah.	11	Q Yeah, I believe this is the long one.
12	Q Okay. All right. Move on to the next	12	A Okay.
13	•	13	Q It's the one that deals with the
14	(DEPOSITION EXHIBIT NUMBER 17		Italian mines.
15	WAS MARKED FOR IDENTIFICATION.)	15	A Yeah. Well, there are a number of
16	A Okay.	16	them.
17	MR. FROST:	17	Q Yeah. There's one that's extremely
18	Q Okay. You'll agree with me that this	18	short
19	document talks about the presence of quartz.	19	A Yeah.
	Nowhere does it talk about the presence of	20	Q and then there's the longer one.
	fibrous amphiboles.	21	This is the longer of the two.
	A Correct.	22	(DEPOSITION EXHIBIT NUMBER 19
23	Q Okay. Move on to the next one, tab	23	WAS MARKED FOR IDENTIFICATION.)
24	which is JNJ238194.	24	MR. FROST:
	P 220		D 241
1	Page 239	1	Page 241
2	Sorry. What number are we on? THE COURT REPORTER:		Q And I'll first address your attention
3	18.		to page 6 of the report.  A Okay.
	MR. FROST:		•
_	18.		Q The bottom paragraph, he sort of it's the summary of what he's doing.
6			
7	(DEPOSITION EXHIBIT NUMBER 18	7	A Hang on. I may have the wrong page. All right. I've got it.
	WAS MARKED FOR IDENTIFICATION.)	8	
8		9	Q Okay. The second sentence is, "Numerous photomicrographs taken under PPL and XN
10	Q And, again, if you want, I can give you	١	
11	time to look at it. But, specifically, we're	10	are provided with the descriptions to illustrate
12	talking about Italy, which is on the first page.	11	the rock textures, which it is hoped will provide information useful to the continuing" or
	My question here is, again, this	12	_
	document nowhere mentions fibrous amphiboles or	14	• *
14		15	
	ore; correct?		1.0
	A Hang on a sec. Let me look that up. I	16	Q Page 6.
17  1Ω	don't think that this is the document I was	17  1Ω	A Okay. All right. I've got it.  MS. O'DELL:
	referencing. Huh-uh. Hang on.	18	
19	Yeah. I don't think that's the right	19	I'm on a different page 6, so give me
20			just a minute.
21	Q Ollay, Time, in 1400, if we to tooling		MR. FROST:
22		22	Sure. It says "page 6" at the top.
	Confidence," which includes the Italian ore, it	23	
24	states, quote, "Long experience of established	24	A Yeah, I think there may be.

e 3.10-ma-02736-MA3-NE3	5057 Ph.D. Page 03 01 130
Page 242	Page 244
<sup>1</sup> Q One, two, three, four, five	<sup>1</sup> MR. FROST:
<sup>2</sup> MS. O'DELL:	Yeah, the entire exhibit.
The page 6 I have, it's it's got a	<sup>3</sup> Q Look at the bottom paragraph. On
<sup>4</sup> picture on it. So it's not what you're	Sorry. On the page on the left.
<sup>5</sup> MR. FROST:	5 Okay. The second sentence down says,
<sup>6</sup> So it's the ninth page in.	<sup>6</sup> "The only asbestos-type mineral to be detected in
<sup>7</sup> MS. O'DELL:	<sup>7</sup> the Hamm samples was tremolite, which was found
8 And I'm sorry. It's right before our	8 in three of the specimens. The tremolite was
<sup>9</sup> call with the Court.	9 associated"
<sup>10</sup> MR. FROST:	Under our conclusion.
Yeah, that's fine. We can pause here.	"with carbonate minerals, mainly
<sup>12</sup> VIDEOGRAPHER:	<sup>12</sup> magnesite and calcite. No tremolite was detected
Going off the record. The time is	13 in the talc-typed specimens."
<sup>14</sup> 12:53 p.m.	14 A Okay.
15 (OFF THE RECORD.)	<sup>15</sup> Q And, then, if you go to the
<sup>16</sup> VIDEOGRAPHER:	16 second-to-last paragraph of the paper
We're back on the record. The time is	17 A Okay.
<sup>18</sup> 1:48 p.m.	18 Q towards the bottom of that paragraph
<sup>19</sup> MR. FROST:	<sup>19</sup> it reads, "Particles formed of the amphibole
<sup>20</sup> Q Okay. Welcome back from lunch, sir.	<sup>20</sup> mineral found at the mine were hardly fibrous in
So we were on page 6 of the Pooley	21 character, the majority of the tremolite breaking
<sup>22</sup> report.	22 in breaking to give compact particles."
<sup>23</sup> A Okay. Right.	23 A Uh-huh.
<sup>24</sup> Q I believe you're on the correct page.	24 Q I read it poorly, but did I read it
Page 243	Page 245
Page 243	Page 245
<sup>1</sup> A Uh-huh.	¹ right?
<ul> <li>A Uh-huh.</li> <li>Q Okay. The bottom paragraph?</li> </ul>	<sup>1</sup> right? <sup>2</sup> MS. O'DELL:
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		Page 246		Page 248
	1	Q Okay.	1	Object to the form.
	2	Great. Sorry. I've got to reorient	2	MR. FROST:
	3	myself where I am in your report. If you'll give	3	Q Because it continues, "And the minerals
	l .	me a second.	4	we'll show in the valley are."
	5	A It's all right.	5	MS. O'DELL:
	6	VIDEOGRAPHER:	6	Object to the form.
	7	Jack, do you have your mic on?	7	A Well, the valley is where the mine is.
	8	MR. FROST:	8	MR. FROST:
	9	I do not.	9	Q Okay. But he's not saying that he has
	10	Q Page 10, we're under "Italy." So about	10	found talc, pyrite, magnesite, calcite, dolomite,
	11	halfway through your paragraph, you have a	11	apatite, clinochlore, chrysotile, tourmaline,
	12	sentence that reads, "Chrysotile is also reported	12	tremolite, actinolite, aluminite, and albite all
	13	in the Val Chisone mineral suite in 1971 by	1	in the Fontane mine ore; correct?
	14	Ashton."	14	MS. O'DELL:
	15	A Right.	15	Object to the form.
	16	Q And you cite JNJAZ55-6103.	16	A Well, I'm I'm not sure that he even
	17	I've got that document.	17	relates Fontane in that paragraph at all.
	18	A And he's got a list of minerals kind of	18	MR. FROST:
	19	in the middle of in the middle of the page	19	Q Exactly. He's just talking about the
	20	there, and chrysotile, I think, is mentioned.	20	mineralization of the valley
	21	Right.	21	A That's right.
	22	(DEPOSITION EXHIBIT NUMBER 20	22	Q correct?
	23	WAS MARKED FOR IDENTIFICATION.)	23	A But Fontane's in the valley.
	24	MR. FROST:	24	Q Yes. But there are lots of other
		Page 247		Page 249
	1	Q Yeah, it's you're talking about	1	places in the valley that aren't the Fontane
		where the the arrow is on the paper?	1	mass; correct?
	3	A Correct.	3	MS. O'DELL:
	4	Q And you'd also agree with me that	4	Object to the form.
	5		5	A That's right. But I don't know why
	6	mineralizations in the valley. He's not talking	6	he'd be interested in them.
	7	about the Fontane ore or mine specifically;	7	MR. FROST:
	8	correct?	8	Q So you're telling me, by reading this,
	9	A He might have been.	9	you couldn't relate to the fact that he's found
	10	Q But there's no way to tell by this	10	all of these and they're associated with the
	11	document; correct?	11	Fontane mine because that mine is located in that
	12	MS. O'DELL:	12	valley?
	13	Object to the form.	13	A I think if you read what's been
	14	A Well, this is a general comment about	14	published about this, what you find is that the
	15	the location.	15	host rocks that contain the carbonate sequence
	16	MR. FROST:	16	with the talc in it is rich in some of these.
	17	Q Okay. And he's talking about, "I have	17	Q Okay. And, again, you're
	18	checked into the mineralization of the part of	18	A So he's probably
	19	the territory"; correct?	19	And I'm, once again, I'm making an
	20	MS. O'DELL:	20	assumption. I don't think he'd go out and decide
	21	Object to the form.	21	that he'd go up to the rim of the valley and
	22	MR. FROST:	22	collect a bunch of rocks that have nothing to do
	23	Q He's talking about the valley?	23	with with J&J or who he was working for.
	24	MS. O'DELL:	24	But, you know, I think that the list of
			1	

Philed 08/22/24 Page 65 of 130 Page 252 <sup>1</sup> minerals here could be extended out to the edges <sup>1</sup> any talc from the Italian mines; correct? <sup>2</sup> of -- of the ore body. And if you went to the 2 A There is a document that says that they <sup>3</sup> Fontane mine, went underground, you could <sup>3</sup> were considering using it again. <sup>4</sup> probably find these minerals in the ore body but 4 Q Okay. <sup>5</sup> next to the host rocks because --5 A And it's in that time period. 6 **Q** But, again, they weren't using it. 6 Q Okay. <sup>7</sup> A <sup>7</sup> They were considering using it. Well, anyway, this is a pretty 8 extensive suite. And -- and the reason I say 8 A To my knowledge, they weren't. <sup>9</sup> that is tourmaline is not a mineral that you Okay. And, to this day, you're 9 **O** 10 would see in a -- in a talc ore body, but it <sup>10</sup> aware -- I think you say in your report from '03 11 would occur next to one. 11 to today they used Chinese talc. Correct? So I've heard in your answer a lot of 12 A That's my -- my understanding. <sup>13</sup> "I guess, I suppose." I mean, you can't sit here 13 **Q** Skipping down, next couple sentences, <sup>14</sup> and tell me that, "Yeah, this shows the 14 it says, "A paper describing asbestos in Italian 15 talc deposits was published by Marconi and Verdel <sup>15</sup> chrysotile is associated with the Fontane ore 16 body"; correct? 16 in 1990." <sup>17</sup> MS. O'DELL: 17 A Okay. 18 Object to the form. 18 **Q** Do you recall that? 19 A Well, it has to be associated with 19 A Yeah, I recall the reference, sure. <sup>20</sup> whatever processes took place that would form Do you recall whether or not they say 20 **O** 21 chrysotile. And it wouldn't be in the enclosing 21 that there's any asbestos found in the Fontane <sup>22</sup> mine deposit? 22 schists. I mean, that -- that's just not the 23 A 23 right locale. I'm not sure they say that <sup>24</sup> specifically. 24 MR. FROST: Page 251 Page 253 1 **Q** 1 O So, again, my -- my question is just Okay. I'll mark it. I'll show it to <sup>2</sup> because it says "chrysotile" in this document <sup>2</sup> vou. <sup>3</sup> doesn't mean there's chrysotile in the ore at (Technical difficulties) 4 Fontane; correct? 4 THE COURT REPORTER: <sup>5</sup> MS. O'DELL: Do you want to go off the record? Object to the form. 6 MR. FROST: 6 Yeah. He doesn't say --7 A Yeah, I was gonna say, let's go off the 8 MR. FROST: 8 record. 9 O VIDEOGRAPHER: Okay. 10 A He doesn't specifically say the Fontane 10 Going off the record. The time is <sup>11</sup> mine. <sup>11</sup> 1:57 p.m. 12 **O** Okay. And, again, I think you --12 (OFF THE RECORD.) 13 tourmaline, you pointed out, wouldn't even be 13 VIDEOGRAPHER: <sup>14</sup> associated with the talc. We're back on the record. The time is You wouldn't -- you wouldn't think so. 15 A <sup>15</sup> 1:58 p.m. Okay. Moving on, on page 10 you note 16 MR. FROST: 16 **Q** 17 that "Fibrous tremolite" --17 **Q** Okay. We are marking the Marconi and 18 Do you see where I am? It's another <sup>18</sup> Verdel Exhibit 21. 19 sentence down. 19 (DEPOSITION EXHIBIT NUMBER 21 "Fibrous tremolite was reported from 20 WAS MARKED FOR IDENTIFICATION.) 21 Italian talc as late as 2009." 21 MR. FROST:

22 **Q** 

24 A

<sup>23</sup> pages 109, 110.

Okay.

Okay. And you agree with me that, by

<sup>24</sup> 2009, Johnson & Johnson certainly wasn't sourcing

Correct.

22 A

23 **O** 

And I'll -- I'm specifically looking at

Page 256 Page 254 1 Q At the very bottom of 109 -- of 109, <sup>1</sup> MS. O'DELL: <sup>2</sup> the section called "Results and Discussion." Object. 3 A Right. <sup>3</sup> MR. FROST: 4 O And it says, "Sample still in And, again, I can --4 Q <sup>5</sup> production does not show the presence of 5 A Wow. 6 serpentine or tremolite amphibole minerals." I can mark it if you want. 6 **Q** Did I read that correctly? 7 A That's a long thesis. 8 Q 8 A Yes. It's a very long paper. If you turn over to 110, if you look at I'm not saying that somewhere in there 9 O 10 Table 1, which is the mean mineralogy composition 10 he doesn't say Hammondsville, but he doesn't --11 of talcs from active Italian mines, the first one 11 he doesn't present any significant information 12 is the Fontane mine in Piedmont; right? <sup>12</sup> about Hammondsville. 13 **O** 13 A Right. Okay. Well, it's a happy medium. I 14 can tell you that the word "Hammondsville" is not 14 O Okay. On page 11 of your report, in 15 that first paragraph we're now -- we've moved on <sup>15</sup> there --<sup>16</sup> to the Vermont deposits. 16 A Okay. 17 A Okay. 17 **Q** -- but you agree with me he's certainly 18 O And, at the end of that -- that first 18 not talking specifically about the Hammondsville geology? 19 paragraph, there's a sentence that says, "These <sup>20</sup> include the Carlton talc mine in Chester, Windsor 20 A No. 21 County, and other Vermont serpentinite-related 21 MS. O'DELL: <sup>22</sup> actinolite or tremolite occurrences as documented 22 Object to the form. <sup>23</sup> by Seymour" -- you have (J&J 53200) -- "at 23 A Yeah. He -- he's not talking about <sup>24</sup> Hammondsville, the Barton steatite quarry, Holden 24 geology at the Hammondsville mine. The geology Page 255 Page 257 <sup>1</sup> talc quarry, Rochester verde antique quarry, and <sup>1</sup> may be quite similar. <sup>2</sup> Mad River mine." <sup>2</sup> MR. FROST: I've read it, again, poorly, but did I 3 **Q** Okay. 4 read it correctly? 4 A But he's not --Right. Well, and, in all fairness, He's not focusing on the geology of <sup>6</sup> Hammondsville. <sup>6</sup> this is a paragraph that I began to take material <sup>7</sup> out of to add to tables. 7 A Right. 8 Q Do you know whether or not commercial Okay. 9 A So it may read herky-jerky because of <sup>9</sup> asbestos was ever mined from either 10 that. You know, it doesn't -- it doesn't flow as 10 Hammondsville, Hamm, Argonaut, or the Rainbow 11 mines? <sup>11</sup> brilliantly as it did when I first wrote it. 12 A 12 **Q** Okay. I'm not gonna -- I won't I don't think it was ever mined from <sup>13</sup> question you on that. 13 that north-south trend at Ludlow. 14 A Okay. 14 O Okay. 15 **Q** Do you agree with me that the Seymour 15 A I'm not sure about Hammondsville. <sup>16</sup> report only relates to the East Johnson mine in 16 The -- the Hammondsville deposit is pretty large, <sup>17</sup> particular? I can mark it if you want me to. <sup>17</sup> and it -- you know, it was mined underground, and 18 A He actually mentions some other mines <sup>18</sup> I don't have a reference that says that it was. <sup>19</sup> in it, but just giving them as examples of other 19 O Okay. That was my next question. 20 locations. And he mentions little mineralogy. 20 Sitting here, you certainly can't point me to 21 But his thesis is the Johnson mine. 21 anything that ever says Hammondsville was used as 22 **O** Okay. And you agree with me that the <sup>22</sup> an asbestos mine; right? 23 paper nowhere -- the paper nowhere mentions the I don't have a reference to that. 23 A <sup>24</sup> Hammondsville mine; correct? 24 On the other hand, it would be

30 0	Replain 238	60k, Ph.D.
	Page 258	Page 260
	<sup>1</sup> interesting to to actually do an asbestos	1 Yep.
	<sup>2</sup> study for the same areas that we've done a talc	<sup>2</sup> (DEPOSITION EXHIBIT NUMBER 22
	<sup>3</sup> study for. And I actually have not done that.	WAS MARKED FOR IDENTIFICATION.)
	In fact, I was surprised when I found	4 MR. FROST:
	<sup>5</sup> that talc had been mined on Belvidere Mountain.	<sup>5</sup> Q I don't believe this report is on your
	<sup>6</sup> I was surprised.	6 literature list. Is that correct?
	7 So, you know, it's not impossible that	<sup>7</sup> A I certainly have it. I'm not sure
	8 at some point in time there was asbestos mined	8 whether I used it or not. I don't believe I did,
	<sup>9</sup> somewhere near Hammondsville in the same rock	
1	0 unit.	10 If I had used it, I would have probably
1	You don't know one way or the other	been referencing maybe some of the other similar
1	<sup>2</sup> A No.	deposits elsewhere than or elsewhere than
1	<sup>3</sup> Q sitting here today?	13 Vermont.
	4 All right. Still on page 11 of your	14 Q Okay. Quickly, if you turn to page 49
1	<sup>5</sup> report, you note it's the paragraph that	15 of this document.
1	6 starts "A literature review for Vermont talc."	16 A Okay.
1	<sup>7</sup> A Okay.	17 MS. O'DELL:
1	-	And if you need a minute to take a look
1	9 Still on page 11?	<sup>19</sup> at it, Dr. Cook, feel free to do that.
2	0 MR. FROST:	<sup>20</sup> MR. FROST:
2	Yes, still on page 11.	21 Q Although I promise you the question is
2	<sup>2</sup> Q Sorry.	<sup>22</sup> really easy.
	<sup>3</sup> A It's all right.	<sup>23</sup> MS. O'DELL:
2	<sup>4</sup> Q Trying to orient myself. I apologize.	24 Well, but
		· ·
	D 250	D 261
	Page 259	
	I can't find where it is in your	<sup>1</sup> MR. FROST:
	I can't find where it is in your report bear with me but one of the	<ul> <li>MR. FROST:</li> <li>Q No. No, but I agree. If you need time</li> </ul>
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Page 264 Page 262 <sup>1</sup> MS. O'DELL: <sup>1</sup> A This is -- it's kind of interesting <sup>2</sup> that they would write this paper. I don't think he's mentioned NIOSH, <sup>3</sup> MR. FROST: 3 but --<sup>4</sup> MR. FROST: 4 Q Why is that? I thought you had. But do you know who Well, the title, it -- it suggests that 5 O 6 NIOSH is? <sup>6</sup> they're willing to accept the fact that 7 A <sup>7</sup> asbestiform talc exists. Right. Okay. But if you turn to page 377, 8 Q And are you aware that NIOSH did an <sup>9</sup> epidemiological study of talc miners working at 9 under "Conclusions" --10 the various Vermont talc plants? <sup>10</sup> A Uh-huh. 11 A I know it exists. I don't know the 11 **O** Do you see where I am? 12 **A** <sup>12</sup> results. Yep. 13 **Q** Okay. And are you aware the reason Hang on a sec. I can't make the pages 14 that NIOSH specifically chose the Vermont talc <sup>14</sup> turn for me. Hang on a sec. 15 mines for purposes of the study? <sup>15</sup> MS. O'DELL: 16 A No. Yeah. Take a minute if you -- since 17 O Were you ever aware that NIOSH chose you haven't seen it, Doctor, if you need to look 18 them because they believed those talc mines to be at it, feel free to take a look at it. <sup>19</sup> asbestos-free? Have you noticed that half the 20 MS. O'DELL: <sup>20</sup> documents we've got don't have dates on them? Objection to form. <sup>21</sup> MR. FROST: 22 MR. FROST: <sup>22</sup> O I have, actually. Have you noticed that? It's the most 23 A 23 **Q** And if you haven't, okay. 24 A No, I didn't know that. <sup>24</sup> irritating thing. Page 263 Page 265 <sup>1</sup> MR. FROST: 1 O I have noticed that. 2 A See, this is a 1979 document. I'm gonna mark another exhibit. 3 **Q** <sup>3</sup> MS. O'DELL: That's correct. 23? 4 A And yet their -- the title is <sup>5</sup> forward-looking. <sup>5</sup> MR. FROST: No. That's 22. No, 23. You're right. So, again, once you're done looking at 6 6 O 7 (DEPOSITION EXHIBIT NUMBER 23 <sup>7</sup> it, I'm on page 377. 8 A Yeah, I'm there. I'm --WAS MARKED FOR IDENTIFICATION.) 9 MR. FROST: 9 O Okay. You see under the first sentence 10 it says, "The Vermont talc industry was selected So on the fourth piece of paper, which 11 by NIOSH for both epidemiological and 11 is probably the eighth page into -- I guess the 12 seventh page, it shows a paper or a study called <sup>12</sup> environmental surveys to distinguish a TWA dust 13 "Occupational exposures to non-asbestiform talc 13 exposure because this talc is believed to contain 14 in Vermont" by Boundy. 14 minimal amounts of quartz and asbestos." Right. And then if you look at the bottom 15 A 16 **Q** Have you ever seen this paper before? <sup>16</sup> sentence, that paragraph, "Petrographic 17 A I don't think so. <sup>17</sup> microscopy analysis, analytical transmission I don't think I referenced it, did I? electron microscopy, and x-ray diffraction with 18 19 **Q** No. It's not in a reference. 19 step scanning revealed no asbestos in the bulk 20 samples." 20 A Huh-uh. I don't think I've seen it. 21 **Q** Okay. 21 Correct? 22 MS. O'DELL: 22 MS. O'DELL: If you need to take a minute and look That's what it states. 24 at it, Doctor, feel free to. <sup>24</sup> MR. FROST:

	*Pageto: 238	<u>063</u>	
	Page 266		Page 268
	Q That's what it states?		mentioned in those mines in the mineral index of
	A That's what it states. But in the	1	Vermont, which, you know, it isn't complete, but
	first thing that you read, it says minimum	3	I think that it's a useful thing to cite.
4	minimal amounts.	4	So, no, I can't think of any in the
5	e or, quette, in accesses.	5	published literature. They may exist. I'm just
6	ii iigiii i waara qaasiisii, yaa iii a w,	6	drawing a blank right now.
7	whether some of those analytical techniques are	7	Q Okay. All right. So turn to page 11,
8	sufficient to say there's no asbestos.	8	sir, of your report.
9	Q So you believe that TEM is	9	A Okay.
10	insufficient?	10	Q You state, about halfway through,
11	TEM, I think, is is okay.	11	"Amphibole in amounts less than .1 percent were
12	Q Okay.	12	found in float feed in Hamm mine ore as reported
13	But I don't think XRD is.	13	in a product certification report in 1992."
14	Q Okay. But, again, analytical	14	And then you cite Imerys 151337.
15	transmission electron microscopy, that's TEM;	15	A Hopefully, that's the right report.
16	right?	16	MR. FROST:
17	A It is. But, now, that's gonna tell you	17	Mark this as 24.
18	the the mineralogy of a specific particle.	18	(DEPOSITION EXHIBIT NUMBER 24
19	Q Okay.	19	WAS MARKED FOR IDENTIFICATION.)
20	A One particle. Okay?	20	MR. FROST:
21	Q Sure. But you agree that TEM is a	21	Here you are.
22	proper	22	Q And, again, you'll agree with me this
23	Well, the point is that they can't have	23	is not a product certification?
24	analyzed a lot of a lot of samples because	24	A No. This is a not something I've
	Page 267		Page 260
			Page /ng
1	_	1	Page 269
	it's too time-consuming and too expensive. So		seen before.
2	it's too time-consuming and too expensive. So the fact that they didn't find any asbestos with	2	seen before.  Q Okay. And this certainly doesn't talk
3	it's too time-consuming and too expensive. So the fact that they didn't find any asbestos with TEM is, you know, that's interesting.	3	seen before.  Q Okay. And this certainly doesn't talk about amphibole found in float feeder in the
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22 33 44 55 66 77 88 99 100 111 122 133 144 155 166 177 188 199 200 211 222	it's too time-consuming and too expensive. So the fact that they didn't find any asbestos with TEM is, you know, that's interesting. Q And, again, that's just speculating because I'm looking at this sentence, how much they looked at and what they looked at. A Right. Q Okay. Okay. Can you point me to any specific geology studies or reports in the published literature that show there's any asbestos at the Hammondsville, Hamm, Argonaut, or Rainbow mines? A In the published literature? Q Yes, in the published literature. A No. Q Okay. Turn to page 11 of your report. A Let me I'm still thinking about my very rapid "no" response. We were mine-specific. I'm thinking about back about the US Geological Survey's database. I don't think there that they have pointed out asbestos in those mines. I don't think they have. They have	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	seen before.  Q Okay. And this certainly doesn't talk about amphibole found in float feeder in the mine?  A No.  Q Okay. Turn to page 12. The top paragraph, it says, "Concern with incorporating serpentine and lampr"  A Lamprophyre.  Q "lamprophyre"  A Uh-huh.  Q "from dikes in processed Vermont ore was expressed in 2006"  A Right.  Q "suggesting a maximum of 2 percent for serpentine."  Do you also agree with me that by '06  Johnson & Johnson was no longer using Vermont talc? Correct?  A Right. They were using it but not for cosmetic talc.  Q Not for cosmetic talcum powder.
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Philip 08/22/24 Page 70 of 130 Page 272 1 A You know, the reason I had that in my <sup>1</sup> mineral. Every mineral's got multiple peaks. <sup>2</sup> report was --And, so, if you've got a sample that's <sup>3</sup> MS. O'DELL: <sup>3</sup> got, let's say, talc, magnesite, and some <sup>4</sup> chlorite, you can have a very complicated x-ray Go ahead. <sup>5</sup> diffractogram and, unfortunately, there is <sup>5</sup> THE WITNESS: <sup>6</sup> interference with some of the characteristic He's not listening. <sup>7</sup> MR. FROST: <sup>7</sup> peaks, particularly for chrysotile. I mean, you <sup>8</sup> just -- you can't do chrysotile by XRD because I'm listening, sir. Q Are you? <sup>9</sup> there are two or three things that interfere with 9 A 10 **O** Okay. Yes. <sup>10</sup> the very peak that you need to look at. 11 A -- was that there's no indication that 11 And, so, it's hard -- it's hard to get 12 there was a dramatic change in geology at 12 to .1, I would say. But I'm willing to accept 13 Argonaut and, so, we know that the lamprophyre 13 that. But I've, in my experience, I have never 14 dikes are -- are pretty prevalent there. So I'm <sup>14</sup> been able to get there. Okay. You agree the published 15 just pointing out once again that there, you 15 O 16 know, there are things that are there that could <sup>16</sup> literature says .1, give or take --<sup>17</sup> A Yeah.

<sup>17</sup> have been in the ore from the start.

Okay. But, again, you know, we're

19 using "could have." We're just sort of guessing

<sup>20</sup> at this point.

21 A Right.

22 MS. O'DELL:

Object to the form.

24 MR. FROST:

Page 271 All right. Further down on page 12 --

18 O

20 A

<sup>21</sup> **Q** 

23 MS. O'DELL:

<sup>2</sup> it's the next paragraph -- you write (as read:)

<sup>3</sup> "Screening talc ore samples for trace to small

<sup>4</sup> amounts of specific amphibole series by X-ray

<sup>5</sup> diffraction is not adequate because of its was

<sup>6</sup> [sic] high detection limit."

7 Do you see that?

8 A Uh-huh. Yes.

9 Q And what's your basis for the

10 statement?

Well, I have done I don't know how many

12 years of analytical work with x-ray diffraction,

<sup>13</sup> and for my clients, I'm not willing to give it

14 below 1 percent. But there you -- they do use

15 step scanning, which is a repetitive process that

<sup>16</sup> exaggerates the presence of a peak. I'm willing

<sup>17</sup> to buy .1, but that's it. I mean, I don't think

<sup>18</sup> you could possibly do it below that.

And it depends on the peaks that you're 19

<sup>20</sup> using, because some of these -- some of these

21 rock units have got minerals --

I mean, all of them have multiple

<sup>23</sup> peaks. Okay? You're not just dealing with an

24 x-ray pattern that has a single peak for one

1 A I've read that.

<sup>22</sup> regulates talcum powder?

<sup>2</sup> MR. FROST:

3 O Okay. And you're aware that, under the

<sup>4</sup> FDA agreed-upon testing, that XRD testing of bulk

-- is the accepted level or the -- the

It's there. That's mentioned.

And are you aware that the FDA

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<sup>19</sup> level of sensitivity of the instrument?

Object to the form.

<sup>5</sup> talcum powder is the first step?

6 A Yes. Yes. That's been the first step

<sup>7</sup> for decades.

Okay. And we've already talked about

this, but you don't have an opinion or you're not

10 qualified to give an opinion as to whether or not

11 any amphibole materials that might exist in talc

12 below .1 percent detection level could be capable

13 of causing human disease; right?

14 MS. O'DELL:

Object to the form. 15

16 A No.

20

17 MR. FROST:

Okay. Further down on that page, you 18 O

19 start talking about chlorite.

It's over on page 12, Leigh, third

21 paragraph down.

22 You note, "Chlorite family species can

23 contain specific heavy metals such as chromium

and are consistently reported in core logs from

Page 276 Page 274 <sup>1</sup> the Argonaut mine." 1 A Whatever. Then you have a cite and the example of 2 **Q** Still on page 12, but --<sup>3</sup> "chlorite content of 4.1 percent is reported for 3 A Yep. Yep. 4 its ores in a reserve study produced in '08. -- we'll move into China. 4 Q Okay? And just because a level of 5 A Thanks. <sup>6</sup> chlorite shows up in the drilling core logs You note at the second paragraph under 6 Q <sup>7</sup> doesn't necessarily mean that it's in the talc <sup>7</sup> the heading "China," quote, "There was a report 8 that's used to produce the ore; correct? <sup>8</sup> of asbestos in Chinese talc in late 2009 (Imerys <sup>9</sup> 309326)." And then you state, "In 2016 Well, let me answer it in an 10 chrysotile particles were found in talc mined in <sup>10</sup> interesting way. When you look at the analyses 11 that we had --<sup>11</sup> China (JNJ52161)." 12 All right. So let's look at those in And, by the way, earlier when I said I 13 hadn't seen a set of analyses that were in spec 13 turn. Let's start with the Imerys 309326. <sup>14</sup> for the metals, I was referring to Vermont. 14 (DEPOSITION EXHIBIT NUMBER 25 <sup>15</sup> O Okav. 15 WAS MARKED FOR IDENTIFICATION.) 16 A I mean, you know, China's usually in 16 MR. FROST: spec completely for metals. 17 **Q** And I'll direct your attention to the But if you look at the -- the analyses 18 last page. 19 for Grade 66 talcum, if you have 99 percent talc, 19 A Yeah. Got it. <sup>20</sup> which is wonderful, there's still 1 percent 20 **O** Okay. And I take it you're relying on 21 something else. And that something else is 21 the sentence about halfway through. It says, <sup>22</sup> "Chinese authorities have informed J&J" --<sup>22</sup> probably a chlorite family mineral. That's <sup>23</sup> probably the way you have got to explain that, 23 A Right. <sup>24</sup> that other 1 percent. 24 O -- "that its internal testing contained Page 275 Page 277 <sup>1</sup> asbestos in several talc body powers marketed in If it is a chlorite family mineral, <sup>2</sup> then it's possible that these high metal numbers <sup>2</sup> China, including two products from J&J." 3 that you have may be related to the chlorite, at 3 A Correct. <sup>4</sup> least in part. And that was -- that was the 4 O Okay. Do you agree with me that it <sup>5</sup> reason for my comment. <sup>5</sup> continues to read, "However, four independent <sup>6</sup> Chinese laboratories using similar test method to 6 Q Okay. <sup>7</sup> the Chinese authorities did not find any 7 A I'm -- I'm trying to explain some of asbestos. J&J approached RTM" --8 the numbers. 9 Q Which is Rio Tinto Minerals. I understand. 10 So it's more of a scientific 10 A Yeah. 11 O -- "for help in the issue. RTM <sup>11</sup> analysis --12 A Right, exactly. 12 provided initial support in identifying potential 13 drawback of the test method used by the Chinese 13 **O** -- of here's how you could explain some 14 of the higher levels because they'd be associated <sup>14</sup> authorities. Chinese authorities invited J&J and <sup>15</sup> with chlorite? 15 others concerned -- J&J, the other concerned talc <sup>16</sup> body powder companies and the four independent 16 A Right. <sup>17</sup> Chinese laboratories whose asbestos test results 17 **Q** Okay. <sup>18</sup> were negative, to discuss and resolve the test 18 MS. O'DELL: 19 19 method discrepancies." This is the document I think that he 20 I read that right? <sup>20</sup> was asking you about. <sup>21</sup> THE WITNESS: 21 A Yeah. Sure. 22 22 **O** Okay. So, again, you're not noting in Okay. 23 MR. FROST: <sup>23</sup> here that there's a question as to whether or not

All right. Gonna move on to China now.

24 **O** 

<sup>24</sup> the Chinese talc findings of chrysotile are

Page 280 Page 278 <sup>1</sup> correct; right? Excuse me. Just give me a second, <sup>2</sup> Jack. <sup>2</sup> MS. O'DELL: Object to the form. <sup>3</sup> MR. FROST: Well, sure. I mean, it's a report 4 A Sure. <sup>5</sup> of -- of asbestos in a particular sample. And it MS. O'DELL: 6 doesn't mean you can't take more samples that are Were you finished? I apologize. I was <sup>7</sup> asbestos-free. <sup>7</sup> trying to get --8 MR. FROST: <sup>8</sup> MR. FROST: Okay. And, again, do you know -- do Yeah. You can object. 10 you know if the Chinese authorities ever had the <sup>10</sup> MS. O'DELL: 11 conversation with the various labs that tested 11 Object to the form. Misstates the 12 whether or not they ever came to the <sup>12</sup> record. 13 determination that there truly was chrysotile? <sup>13</sup> MR. FROST: 14 **Q** 14 A I think --Okay. 15 MS. O'DELL: Yeah. I don't remember exactly what 16 <sup>16</sup> the -- the resolution was, but I don't think Excuse me. 17 Object to the form. Misstates the <sup>17</sup> everybody quit -- quit using the Chinese talc <sup>18</sup> record. <sup>18</sup> because of the -- the results of that -- of that 19 test. 19 MR. FROST: 20 **O** <sup>20</sup> **Q** You can answer. All right. I think that there is a whole series of <sup>21</sup> A But it doesn't -- to me, it doesn't 22 memoranda and reports that relate to, you know, <sup>22</sup> mean there was no asbestos. 23 it was the bee in the bonnet here. And I don't 23 **O** Okay. I'm gonna mark JNJ52616. 24 <sup>24</sup> remember the exact details of who did what to (DEPOSITION EXHIBIT NUMBER 26 Page 279 Page 281 <sup>1</sup> whom, but I think in the end they decided that it WAS MARKED FOR IDENTIFICATION.) 1 <sup>2</sup> must have been a mistake. 2 A For -- you know, let me just give you 3 **Q** Okay. <sup>3</sup> an example. If these people determined asbestos They didn't prove it was a mistake, but <sup>4</sup> with XRD, it's a pretty good chance that it was 4 A <sup>5</sup> I think that that was the consensus. <sup>5</sup> certainly higher than .1. I would guess that 6 their equipment wouldn't -- wouldn't get it down 6 O That was the ultimate determination? <sup>7</sup> Okay. <sup>7</sup> that low. So they must have -- they must have 8 A You know, I'm experienced with the 8 seen something. <sup>9</sup> Chinese, and -- and, in the first place, they 9 MR. FROST: 10 would never report talc if it would damage their 10 O But, again, you're only guessing at 11 competitive market for a product. They would 11 this point; correct? 12 A 12 have never reported asbestos in talc. So it Yeah, I'm guessing. 13 seemed to me kind of odd that they -- that they 13 MS. O'DELL: 14 did it in the first place if there was any 14 Object to the form. 15 question about it. <sup>15</sup> MR. FROST: The -- the analytical equipment All right. Let's look at the document 16 <sup>17</sup> available in China is, you know, some's good and <sup>17</sup> that's marked 26. And if you turn to the second page under Section 3, "Observation," about 18 some's bad. 19 halfway down the last full paragraph in that --19 O Okay. But, again, you agree -- you 20 know, your recollection is the ultimate 20 that box, it states, "The samples were reprepped 21 determination was that it was a mistake --21 and analyzed on 2-22-2016. It indicated the 22 A It kind of --22 sample and ID number 3138494 had multiple <sup>23</sup> chrysotile particles. Reproduction could not 23 **Q** -- it ---<sup>24</sup> duplicate the original results." <sup>24</sup> MS. O'DELL:

Page 284 Page 282 1 I take it that's the section of this <sup>1</sup> I mean, it isn't gonna work. <sup>2</sup> document you're relying on --<sup>2</sup> MR. FROST: Okay. You agree that's what the 3 **A** 3 **Q** Yes. 4 document says; right? 4 Q -- to say that chrysotile was found in 5 2016? 5 A Yeah. You read it -- you read it the 6 way it's written, but... 6 A Yes. 7 **Q** All right. I'm gonna turn to some more Okay. If you turn over to the next <sup>8</sup> general questions now. <sup>8</sup> page. Now, you're generally aware that there 9 A Can I make a comment about that? 10 O Sure. <sup>10</sup> are various regulations regarding ore reserve 11 A 11 reporting, models of deposits, mine plans, things It's amazing how many reanalyses end up 12 with nothing in them. And unless you know how 12 like that that miners have to abide by; correct? 13 they're re- -- resampling and reanalyzing, you're 13 MS. O'DELL: <sup>14</sup> really not sure what's going on here. If they 14 Object --15 had a split of the original sample and came up You said regulations? 15 A <sup>16</sup> with nothing when the first split had something, <sup>16</sup> MR. FROST: <sup>17</sup> they should have run it a third time. 17 **Q** Yeah, regulations. 18 **Q** Okay. Well, let's look over to the --18 MS. O'DELL: 19 to page 4, or the fourth page of this. I don't Object to the form. <sup>20</sup> believe it has page numbers. <sup>20</sup> MR. FROST: Or laws and regulations. 21 A Okay. 21 **Q** 22 **Q** About halfway through that paragraph it 22 MS. O'DELL: Object to the form as vague as to time <sup>23</sup> states, "Retest samples were reanalyzed using 23 <sup>24</sup> specific talc parameters on the XRF which should <sup>24</sup> and location. Page 283 Page 285 <sup>1</sup> have been applied when the original samples were 1 A Yeah. The -- this -- you must be <sup>2</sup> analyzed." <sup>2</sup> talking about state-specific things. 3 A With XRF? <sup>3</sup> MR. FROST: Let me -- the SEC, for example, has 4 O XRF. I'm just reading from the 4 O <sup>5</sup> document. <sup>5</sup> mining regulations. Are you aware of those? 6 A Did you say SEC? 6 A Uh-huh. 7 **Q** 7 **Q** "They were not applied because the I said SEC. 8 analyst who typically runs the XRF was out of the 8 A Like Southeastern Conference? <sup>9</sup> office and her backup did not apply the 9 O No. Like the Securities Exchange <sup>10</sup> talc-specific settings." <sup>10</sup> Commission. 11 A 11 Did I read that correctly? Yeah. I think that in the sense that 12 MS. O'DELL: 12 if you're a publicly traded company, there's 13 Object to the form. 13 certain data that has to be made available. Okay. And there are also -- you know, 14 A Yeah. I --<sup>15</sup> MR. FROST: 15 there's also JORC? Have you ever heard of JORC, Do you agree with me that what they're 16 the Joint --<sup>17</sup> saying there is that the first tested was because 17 A I've heard of it. I don't know what it 18 of poor lab procedure? <sup>18</sup> is. 19 MS. O'DELL: 19 O Okay. And there's other bodies. EPA <sup>20</sup> has regulations. State regulators have 20 Object to the form. 21 A I'm not sure that's what it says, but 21 regulations. So you agree there's a body of law <sup>22</sup> I'm -- and I'm puzzled about the use of XRF. <sup>22</sup> in regulation, right, that relates to mining?

23 A

24 MS. O'DELL:

There are --

<sup>23</sup> I -- I would think that they would -- they had to

<sup>24</sup> have been XRD. You can't do XRF with asbestos.

Philed 08/22/24 Page 74 of 130 Page 286 Page 288 1 Object to the form. Vague. It's <sup>1</sup> would, you know, cover, for example, the Windsor <sup>2</sup> unclear what you're asking. <sup>2</sup> Minerals operations in Vermont? But if you understand the question --I don't see how it would be that <sup>4</sup> but don't speculate as to what it means. <sup>4</sup> different from anything else, any other 5 A I -- I -- I think I understand it. <sup>5</sup> operation. The states, when you're gonna open up a Okay. But, sitting here today, can you <sup>7</sup> mine, require certain information to be presented <sup>7</sup> tell me that -- what the regulations are that 8 in support of, really, your reclamation plan. 8 they're required to follow? <sup>9</sup> But in order to present a good reclamation plan, Well --Α 10 you have to give them information about the <sup>10</sup> MS. O'DELL: 11 mining, the length of the mining operation, its 11 Object- -- objection as to 1965 to 12 life, and some details about what you're doing. 12 2000 --So each state can have slightly varying 13 MR. FROST: <sup>14</sup> requirements for that. But the whole idea is Sure. I'm just asking generally if 15 they want your money. They want you to put up a he's aware of any of the -- the regulations that 16 reclamation bond. And in order to figure out are required, and then we can sort of focus in <sup>17</sup> exactly how hard to squeeze, they need some <sup>17</sup> from there. <sup>18</sup> information. 18 MS. O'DELL: 19 MR. FROST: Well, you asked a question that relates to today at Windsor Minerals. And I don't think 20 **O** Okay. I'll ask it a different way <sup>21</sup> because I'm not just focusing in on reclamation. Windsor Minerals is operating --But are you aware that there are MR. FROST: <sup>23</sup> regulations and standards out there that mines 23 It -- it doesn't --<sup>24</sup> have to follow regarding things like, you know, 24 MS. O'DELL: Page 289 Page 287 <sup>1</sup> for example, model -- you know, how to model a ---- in Virginia -- Virginia -- Vermont 2 how -- how to model a deposit, mine plan, things <sup>2</sup> today. <sup>3</sup> of that nature? <sup>3</sup> MR. FROST: 4 MS. O'DELL: 4 Q I'm not limiting my question today. 5 Object to the form. <sup>5</sup> I'm just saying in general. I have never been required to turn in a So I'll put it this way. I think we 6 A <sup>7</sup> mine plan to a regulatory agency. But what I <sup>7</sup> established at the beginning you're not a 8 have had to turn in were the data necessary for <sup>8</sup> regulatory expert, nor do you hold yourself out <sup>9</sup> them to issue water permits and air permits. to be a regulatory expert. Correct? <sup>10</sup> And -- and those require some modeling. <sup>10</sup> MS. O'DELL: 11 I have an interest in three operating 11 Object to the form. 12 mines right now. We've never been asked to 12 A I know a lot about it. 13 submit our detailed mining plans. 13 MR. FROST: 14 MR. FROST: 14 O Okay. Okay. So you're getting very focused I don't know that I'm an expert. But 15 **O** 15 A

- <sup>16</sup> in on -- on examples. So I guess is it fair to
- 17 say you're not an expert in nor are you
- <sup>18</sup> particularly familiar with, like, the JORC
- 19 specifications that require talc mines?
- 20 A Like I said, I've heard of JORC and
- <sup>21</sup> I -- but I don't know anything about it.
- 22 **O** Okay. And you also couldn't tell me,
- 23 you know, other than a couple examples, you're
- <sup>24</sup> not an expert in the regulatory requirements that

- <sup>16</sup> I've had to comply with regulatory rules and

- regulations. And if I was going to go and get a
- mine permit right now --
- Let's just use Alabama, because I know 19 enough about Alabama.
- 21 -- there's three permits required in
- Alabama. There is an air permit. You've got to
- prove that the operation that you're gonna open
- <sup>24</sup> up is not going to exceed a certain level of

<sup>1</sup> particulate matter in the air, food, your <sup>2</sup> operation.

If you're gonna discharge water, you've got to have a water permit. If you --

You have to have what we call bugs and <sup>6</sup> bunnies study. You've got to prove there's no endangered species.

8 You've got to have an anthropological study that proves that you're not impacting a <sup>10</sup> site of, you know, Indians.

And then the final thing is you've got <sup>12</sup> to get a state mining permit. And in Alabama,

<sup>13</sup> the state mining permit is virtually a rubber 14 stamp. It may not be in other states. But in

<sup>15</sup> Alabama, that's -- that's what you've got to do.

<sup>16</sup> And, I mean, I've done that three or four times

<sup>17</sup> in the last ten years.

<sup>18</sup> **Q** All right.

11

19 A And, so, I would assume -- I would

<sup>20</sup> assume -- and, of course, there is -- once you

21 say you're gonna -- gonna operate, you need to

<sup>22</sup> post your reclamation bond. And that then

<sup>23</sup> requires you to present certain information. In

our -- in Alabama, it's to a State Department.

24 O

Okay. But, sitting here, you know, you

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1 O Okay. I'll ask it a different way.

2 Sitting here today, you can't tell me

3 what rules, laws, and regulations specifically

4 oversaw and that Windsor Myer -- Windsor Minerals

5 was required to abide by from the period of 1965

6 to the late 1990s when they were supplying talc

<sup>7</sup> to Johnson & Johnson. Is that a fair statement?

8 A In the late 1990s, I think I gave you

9 some just now that they would have had to comply

10 with.

11 O Okay. I'm not talking about some. I'm

12 talking about can you tell me the regulatory

13 requirements that Windsor Minerals would have

14 been required to follow with respect to their

<sup>15</sup> mine and their mining practices?

16 MS. O'DELL:

17 Object to the form.

Is this once the mine is in operation? 18 A

19 MR. FROST:

When the mine is operating. 20 **O** 

21 A Oh, okay. I'm sorry. I thought you

22 were talking --

23 **Q** No. I'm talking about --

24 A -- about trying to open up the mine. 1 O No. Its yearly ongoing operations.

<sup>2</sup> A Yeah. Okay. This is all totally

<sup>3</sup> different, then. Yeah. That's when MSHA gets

<sup>4</sup> involved with you.

Okay. And MSHA's one, and there are

<sup>6</sup> lots of regulatory agencies; correct?

Yeah. Well, around here, MSHA's the

8 one that you fear. Because when they show up,

you're gonna get fined. I mean, they pay for

their visit here to your property.

11 And, so, there's a list of things that

12 they look at that's as long as your arm. And if

13 they can't find one of them out of compliance,

<sup>14</sup> they'll generate one.

15 O Okay. So other than the MSHA

<sup>16</sup> requirements, which are health and safety, can

you tell me any of the other --

You know, I've mentioned JORC. It

19 seems like you're not familiar with the JORC

requirements. Correct?

If I am, it's under another name or

<sup>22</sup> another agency applies their -- whatever their

<sup>23</sup> regs are.

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1 certainly can't say --

For example, we don't need to go --

A lot of the mine reports from -- from

4 the various miners talk about, you know,

<sup>5</sup> complying with JORC specifications. You couldn't

6 tell me what those specifications --

7 A What does JORC stand for?

8 O Joint Ore Reserve Commission.

9 A No.

10 O Okay. And you certainly don't list any

11 of the laws, regulations, and requirements within

12 your report, right, that --

13 A No.

14 O -- mining companies --

15 A I bet you there's some mining companies

<sup>16</sup> out west that would love to know about this.

17 **Q** Okay. But, again, focusing on your

18 report, you certainly don't list any of the laws,

19 regulations, requirements.

20 A

21 **Q** And you're not intending to offer any

22 opinions --

23 A No.

24 O -- about compliance with laws,

Page 296 Page 294 1 regulations, and requirements in this case. <sup>1</sup> MS. O'DELL: 2 A No. But you're gonna make me go and Object to the form. <sup>3</sup> look some stuff up. I have -- I have not. It's -- it's Α 4 Q Sure. <sup>4</sup> insufficient to -- to work with. 5 And would you agree with me that <sup>5</sup> MR. FROST: 6 compliance with laws, requirements, regulations And, again, you know, you've -- you've 7 is one of the things --<sup>7</sup> run no analysis to determine --8 Strike that. I'll ask it differently. Well, we'll turn to the specifics when You talk quite a bit in your report we get to them. 10 about sampling methodologies. And do you agree But don't you agree that it's important 11 with me there are probably thousands of papers <sup>11</sup> as a scientist, when you're making a 12 that have been published about sampling determination that something is complete or not, 13 methodologies, you know, how to determine whether 13 that it's based on the theories of peer-reviewed 14 or not a sample is representative of a greater <sup>14</sup> literature? <sup>15</sup> group of ore and things like that; right? <sup>15</sup> MS. O'DELL: 16 MS. O'DELL: 16 Object to the form. 17 Object to the form. 17 A Is complete or not? 18 Α I'm sure there's --18 MR. FROST: 19 Pardon me. Yes. Like here, such as -- you know, I'm sure there -- I don't know that <sup>20</sup> your overall opinion that the sampling, for 20 21 example, done by the mining company is a 21 there's thousands, but I know there's a lot. <sup>22</sup> representative. As a scientist, don't you agree 22 MR. FROST: <sup>23</sup> with me that it's important to base those 23 O Okay. And there are a bunch of 24 competing theories or different theories, anyway, <sup>24</sup> opinions on empirical data? Page 295 Page 297 <sup>1</sup> about how to do sampling, how to calculate, <sup>1</sup> MS. O'DELL: <sup>2</sup> things of that nature; correct? Object to the form. 3 A I don't know how competing they are. I It needs to be based on data. It sure 4 know that they evolve with time. If you took a <sup>4</sup> does. I mean, and I think I've based my opinion <sup>5</sup> good paper that tried to hammer all this out that <sup>5</sup> on data and the lack thereof. 6 was published in 2015 and compared it to one that 6 MR. FROST: <sup>7</sup> was written in 1985 --But you didn't run or attempt to run <sup>8</sup> any type of statistical analysis to determine 8 Q There'd be some differences. 9 A Right. There might be competitive <sup>9</sup> whether or not the sample was truly <sup>10</sup> ideas in there. 10 representative, the sample was --<sup>11</sup> MS. O'DELL: But you do agree with me sort of the <sup>12</sup> underlying principle under most of the different 12 Object to the form. 13 theories is that you have to use geostatistics to No. And my point was that there's --14 determine whether or not what you're sampling is 14 there's -- they're missing -- there are intervals 15 itself representative of the ore body; correct? <sup>15</sup> in time where there's missing data. 16 MS. O'DELL: <sup>16</sup> MR. FROST: 17 17 **Q** Object to the form. Okay. 18 A You -- yeah. You would hope that that 18 A When you have that, you can't do much. 19 would happen. 19 O And you also agree with me, then, that 20 MR. FROST: <sup>20</sup> your opinions regarding the adequacy of the 21 **Q** Okay. And am I also correct that you 21 sampling is based on an incomplete data set? <sup>22</sup> have not done any geostatistical analysis of any 22 MS. O'DELL:

23

24 A

Object to the form.

It's -- it's worse than that. The

<sup>24</sup> Johnson & Johnson or Imerys in this case?

23 of the sampling data from either

- $^{\rm 1}~$  sampling mechanisms are not described. There'll
- <sup>2</sup> be a place where it'll describe or will mention
- <sup>3</sup> mechanical sampling, but it doesn't say when the
- <sup>4</sup> mechanical sampler was put in place to take the
- <sup>5</sup> place of, say, a grab sample. Doesn't say what
- <sup>6</sup> type of mechanical sampler it was. Is it
- <sup>7</sup> something that's sampling continuously or once an
- 8 hour an arm sweeps across a conveyor belt and
- <sup>9</sup> grabs a sample? There are all kind of samplers.
- And when you've got some- -- something
- 11 as critical as -- as your cosmetic talc that
- 12 really requires, you know, careful attention, I
- 13 would like to have seen exactly where in the
- <sup>14</sup> various process this sampling was taking place.
- And there -- there are references to
- <sup>16</sup> sampling at the mine itself, and we can't -- we
- 17 haven't seen the data. And yet there should be
- 18 hundreds and hundreds and hundreds of analyses of
- <sup>19</sup> drill hole cuttings that are being put in as
- <sup>20</sup> blast holes. You know, I'm sure that if you're
- 21 gonna do selective mining, you don't use a drill
- 22 hole spacing that's 10 feet on a -- on a side.
- 23 That's what we use in the quarry. And we get
- <sup>24</sup> huge amounts of rock.

- <sup>1</sup> well know.
- <sup>2</sup> A They have not suggested to me that
- <sup>3</sup> they've withheld anything. Whenever I've asked

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Page 301

- <sup>4</sup> for something, if they got it, they give it to
- <sup>5</sup> me. If they don't, I never see it.
- 6 MR. FROST:
- <sup>7</sup> Q But you're guessing that they're giving
- 8 you everything. You have no way of telling me
- <sup>9</sup> whether or not --
- <sup>10</sup> A I don't know --
- <sup>11</sup> Q -- they are --
- 12 MS. O'DELL:
- Excuse me. Are you finished with your
- 14 question?
- 15 MR. FROST:
- Yeah. I'm finished.
- <sup>17</sup> MS. O'DELL:
- Object to the form.
- You may answer.
- <sup>20</sup> A I don't know that that's a guess.
- 21 MR. FROST:
- <sup>22</sup> Q Well, you certainly have done nothing
- <sup>23</sup> independently, nor have you been able to, to
- <sup>24</sup> verify that; correct?

- If I was gonna be selectively mining
- <sup>2</sup> talc, I would have smaller faces, tighter holes.
- <sup>3</sup> I would be -- I wouldn't be having more than a
- <sup>4</sup> few thousand tons per blast. But I would know
- <sup>5</sup> exactly what I was fixing to blast and -- and
- <sup>6</sup> that data, there are documents to indicate that
- <sup>7</sup> the data sufficient to move in that direction
- <sup>8</sup> exists. But we never got it.
- <sup>9</sup> O Okay.
- <sup>10</sup> A We've asked for it.
- And that's -- that's very important.
- <sup>12</sup> Because one I think we've already established,
- 13 you have no way of telling whether or not you
- <sup>14</sup> actually have all the documents that are
- <sup>15</sup> relative -- are relevant to these points;
- <sup>16</sup> correct?
- <sup>17</sup> MS. O'DELL:
- Object.
- 19 MR. FROST:
- 20 You have only what plaintiffs' counsel
- <sup>21</sup> has deemed to give you.
- 22 MS. O'DELL:
- Object to the form. Based on what was
- <sup>24</sup> disclosed and produced in the litigation, as you

- A I've tried to break into their offices
- <sup>2</sup> at night and see -- see if they had a big pile of
- <sup>3</sup> data they should have sent to me.
- <sup>4</sup> Q Well, did you ever ask if you could
- <sup>5</sup> have access to the full database --
- 6 A I'm --
- <sup>7</sup> O -- of documents?
- 8 I'm not -- I know you're being
- <sup>9</sup> facetious.
- <sup>10</sup> A Yeah.
- 11 Q But have you ever asked to have full
- 12 access to the document database of the
- 13 documents --
- 14 A If they're --
- <sup>15</sup> Q -- provided by Johnson & Johnson and
- 16 Imerys?
- 17 MS. O'DELL:
- Object.
- <sup>19</sup> A Pardon me.
  - No, certainly not, because of the
- 21 number involved. What would I do with 800,000
- <sup>22</sup> documents?
- 23 MR. FROST:
- <sup>24</sup> Q And you've never run any searches

Page 304 Page 302 <sup>1</sup> yourself against the database? <sup>1</sup> MS. O'DELL: 2 A No. Objection to form. So, again, you're just relying on what I'm not saying that at all. I am not 3 **A** <sup>4</sup> saying that. I'm saying that we have asked for <sup>4</sup> plaintiffs have given to you. <sup>5</sup> MS. O'DELL: <sup>5</sup> all of the data. And if what I've been given is Object to the form. <sup>6</sup> all you've got, then fine. That's fine with me. 7 A <sup>7</sup> But I'm not saying that I've got -- that there's I have absolutely no reason to doubt <sup>8</sup> the honesty of Miss O'Dell and company. <sup>8</sup> a data set out there that you guys have held back <sup>9</sup> MR. FROST: and not bothered to send in. I'm not gonna say 10 O Well, I can tell you you don't have the <sup>10</sup> that. 11 complete copy -- complete compilation of all of <sup>11</sup> MS. O'DELL: We've been going about an hour. Let's <sup>12</sup> the --13 A Well, one might ask why not since we've <sup>13</sup> take a short break. <sup>14</sup> asked for them over and over again. 14 MR. FROST: I'm talking about the documents you That's fine. <sup>16</sup> have, sir. I can tell you there are testing <sup>16</sup> VIDEOGRAPHER: 17 results, for example, that aren't provided --17 Going off the record. The time is 2:44 18 A Well --18 p.m. 19 19 MS. O'DELL: (OFF THE RECORD.) Object to --<sup>20</sup> VIDEOGRAPHER: <sup>21</sup> MR. FROST: We're back on the record. The time is 22 **O** We'll go over some of them later. <sup>22</sup> 3:01 p.m. 23 MS. O'DELL: 23 MR. FROST: Object to the form. 24 **O** I've sort of come up with another Page 305 Page 303 <sup>1</sup> MR. FROST: <sup>1</sup> general question I forgot to ask. But would you <sup>2</sup> agree with me that compliance with legal 2 **Q** And we'll go over some of those later. <sup>3</sup> But, again --<sup>3</sup> standards is an important consideration in 4 determining whether or not a mine is being So what we heard a lot of is you're not <sup>5</sup> saying I've reviewed all the documents and I know <sup>5</sup> properly operated? <sup>6</sup> they're not using the correct equipment. It 6 A Yes. <sup>7</sup> sounds like your opinion more is "I can't tell 7 **Q** All right. Turn to page 37 of your <sup>8</sup> what they're using and there's incomplete data <sup>8</sup> report. <sup>9</sup> here," and that's sort of the basis for your 9 A Okay. 10 opinion. Is that -- is that a fair observation? Okay. The second full sentence on that 10 O 11 MS. O'DELL: <sup>11</sup> page, it says, "Ore sampling techniques do not 12 Object to the form. 12 suggest representativeness and were questioned in 13 A Not -- not really. I mean, it's part 13 a 2009 Intertek audit." And you cite Imerys 14 of it. It's part of what I see, and the total 14 031712. 15 A <sup>15</sup> document set that I've got is a suggestion that I think that's with respect to Chinese 16 there's sampling going on. But even -- even if 16 talc. <sup>17</sup> the sampling is taking place, we don't have 17 **Q** Okay. <sup>18</sup> analytical results for samples that should have 18 A Okay. 19 been taken. And, so, it's very difficult to use 19 O Let's -- let's take a look at that <sup>20</sup> anything other than what we've got to draw document real quick. <sup>21</sup> conclusions from. 21 MS. O'DELL: 22 MR. FROST: 22 031712? Okay. You agree with me you're drawing 23 MR. FROST: <sup>24</sup> conclusions based on an incomplete record. 24 031712, yes.

<i>,</i> 0.	Redelint 258	<b>373</b>	Ph.D. Ph.D.
	Page 306		Page 308
1	What number are we at?	1	A That's true.
2	THE COURT REPORTER:	2	Q Okay. We'll turn to 631362.
3	27.	3	(DEPOSITION EXHIBIT NUMBER 28
4	(DEPOSITION EXHIBIT NUMBER 27	4	WAS MARKED FOR IDENTIFICATION.)
5	WAS MARKED FOR IDENTIFICATION.)	5	MR. FROST:
6	MR. FROST:	6	Q And I'll direct your attention to page
7	Q I'll call your attention to page 5.	7	364, which is the callout from the report.
8	A Okay.	8	MS. O'DELL:
9	Q The first audit area, I take it that's	9	Bates number 364 at the end?
10	what you're referencing	10	MR. FROST:
11	A Yes.	11	That's correct. So it's 631364.
12	Q in the sample.	12	A Got it.
13	A Uh-huh.	13	MR. FROST:
14	Q Okay. And, again, you'd agree with me	14	Q Okay. And if you look down at number
15	that Intertek rates this audit area as minor;	15	14
16	correct?	16	Well, first off, do you agree that this
17	A I'm looking for a level 5 on here. I'm	17	is a Certificate of Analysis from the mining
18	not seeing I'm not seeing the level.	18	company, the Chinese mining company?
19	Q It's under the box that goes audit	19	A Yes.
20	area, finding, recommendation, and then rating.	20	Q Okay. And if you look down at 14, the
21	Is is the bottom.	21	document's been translated and it says: In the
22	A Oh, the rating. I see it. Yeah.	22	absence of asbestos, China SFDA method, none
1	Q Then it says "minor."	23	detected by X-Ray Diffraction, none detected as
24	A Right. Right. Sure.	24	fibrous amphibole by Polarized Light Microscopy,
	Page 307		Page 309
1	Q Okay.	1	performed only if detected by X-ray diffraction,
2	•	2	et cetera.
3		3	So do you agree with me that this is
4	Q Oh. The number. Oh, okay. Sorry. It	4	the mine owner certifying that they've tested the
1	was page 5. I apologize if I caused confusion.		talc and it's come up as asbestos-free?
6		6	MS. O'DELL:
7		7	Object to the form.
8	Q Oh, I see.		
9	Q 011, 1 500.	8	· ·
110	So you'd agree with me that whatever	8 9	
10	So you'd agree with me that whatever		A It does not say that. It says they
11	So you'd agree with me that whatever concerns they may have addressed, they rated this	9	A It does not say that. It says they were unable to detect it with those techniques.
	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?	9	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's
11 12	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?	9 10 11	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.
11 12	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.	9 10 11 12	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST:
11 12 13 14	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.	9 10 11 12 13	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST:  Q Well, it says "Absence of asbestos,
11 12 13 14 15	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.  A Yes.	9 10 11 12 13 14	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST:  Q Well, it says "Absence of asbestos, none detected."
11 12 13 14 15 16	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.  A Yes.  Q Okay. Further down on page 37 of your	9 10 11 12 13 14 15	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST:  Q Well, it says "Absence of asbestos, none detected."  Do you agree with me there?
11 12 13 14 15 16 17	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.  A Yes.  Q Okay. Further down on page 37 of your report, next paragraph, sort of in the middle,	9 10 11 12 13 14 15 16	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says. MR. FROST: Q Well, it says "Absence of asbestos, none detected." Do you agree with me there? A That is that is the problem. They
11 12 13 14 15 16 17	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.  A Yes.  Q Okay. Further down on page 37 of your report, next paragraph, sort of in the middle, you note that "As recently as 2016, Chinese	9 10 11 12 13 14 15 16 17	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST:  Q Well, it says "Absence of asbestos, none detected."  Do you agree with me there?  A That is that is the problem. They use this word "absence of asbestos" in their
11 12 13 14 15 16 17	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.  A Yes.  Q Okay. Further down on page 37 of your report, next paragraph, sort of in the middle, you note that "As recently as 2016, Chinese testing for asbestos is implied in a Guilin Guiguang talc development company document,	9 10 11 12 13 14 15 16 17 18 19	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST:  Q Well, it says "Absence of asbestos, none detected."  Do you agree with me there?  A That is that is the problem. They use this word "absence of asbestos" in their their Certificates of Analyses, and yet the technique they're using can't justify that.  Q So the reason you use the word
11 12 13 14 15 16 17 18	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.  A Yes.  Q Okay. Further down on page 37 of your report, next paragraph, sort of in the middle, you note that "As recently as 2016, Chinese testing for asbestos is implied in a Guilin Guiguang talc development company document, JNJ631362 at 364."  And then, further down, the next	9 10 11 12 13 14 15 16 17 18 19	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says. MR. FROST: Q Well, it says "Absence of asbestos, none detected." Do you agree with me there? A That is that is the problem. They use this word "absence of asbestos" in their their Certificates of Analyses, and yet the technique they're using can't justify that. Q So the reason you use the word "implied" is because they're using a nondetect
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11 12 13 14 15 16 17 18 19 20 21 22 23	So you'd agree with me that whatever concerns they may have addressed, they rated this as a minor concern?  A To them?  Q Yes.  A Yes.  Q Okay. Further down on page 37 of your report, next paragraph, sort of in the middle, you note that "As recently as 2016, Chinese testing for asbestos is implied in a Guilin Guiguang talc development company document, JNJ631362 at 364."  And then, further down, the next sentence, you wrote, "I have not seen any data confirming this."	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A It does not say that. It says they were unable to detect it with those techniques. And the limit of detection's like .1. So that's not what this says.  MR. FROST:  Q Well, it says "Absence of asbestos, none detected."  Do you agree with me there?  A That is that is the problem. They use this word "absence of asbestos" in their their Certificates of Analyses, and yet the technique they're using can't justify that.  Q So the reason you use the word "implied" is because they're using a nondetect standard as opposed to saying what? Non no asbestos?
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Page 312 Page 310 1 O But, again, they're testing it by, you <sup>1</sup> not gonna know. <sup>2</sup> know, China SFDA method; correct? And, so, it's improper for them to say 3 MS. O'DELL: <sup>3</sup> that there's no asbestos there. They should say <sup>4</sup> no asbestos was detected. It's very simple. Object to the form. 5 A Their FDA method isn't necessarily <sup>5</sup> MR. FROST: Again, isn't that what they're saying, <sup>6</sup> consistent with what J&J would like. 6 **Q** <sup>7</sup> MR. FROST: <sup>7</sup> absence of asbestos showing the Chinese method and saying none detected? 8 **O** Okay. But, again, we have testing <sup>9</sup> here. They're doing it by x-ray diffraction, and Α No. 10 then polarized light microscopy is what the --10 O I don't -- I don't understand. The <sup>11</sup> the notation says. <sup>11</sup> words they're using on this paper are exactly 12 A <sup>12</sup> what you're explaining to me. Right. 13 **Q** Correct? 13 A No, they're not. 14 O 14 A Correct. I'm confused. All right. So it says And you have no reason to doubt that --<sup>15</sup> absence of asbestos. <sup>16</sup> or to say that the Chinese mine owner is lying on 16 A Stop. <sup>17</sup> their Certificate of Analysis; right? 17 **Q** Right? 18 A 18 MS. O'DELL: Stop right there. Absence of asbestos 19 19 means there is none there. Correct? Object to the form. 20 A When he says "free from asbestos," he 20 **O** Well, that's -- under the test items, <sup>21</sup> may be lying. 21 that's why --22 MR. FROST: So if you look up, test items, it says, <sup>23</sup> "Test, absence of asbestos." Right? Then it And why --23 **Q** <sup>24</sup> says, "Test method: China, SFDA method." And 24 A I mean, they do it all the time. Page 311 Page 313 <sup>1</sup> Believe me. I mean, that's not unusual. But --<sup>1</sup> then, under acceptance of criteria, it says "none <sup>2</sup> but I'm not accusing them of lying. I'm saying <sup>2</sup> detected." <sup>3</sup> that there is a confusion of terminology is all. <sup>3</sup> MS. O'DELL: Okay. And you believe the confusion of Object to the form. <sup>5</sup> the terminology is that absence of asbestos, none That does not mean absence. I mean, <sup>6</sup> the two do not mean the same thing. That's --6 detected ---7 A <sup>7</sup> that's my point. They don't mean the same thing. -- implies --8 MR. FROST: 8 Q 9 A They do not mean the same thing. 9 **Q** So --Okay. And you don't believe that they 10 **O** 10 A When you --<sup>11</sup> are certifying here that, pursuant to the Chinese 11 Listen, this isn't that difficult. 12 FSDA method, that this is, you know, certified as When you say that you can't detect something, it 13 absent of asbestos? 13 doesn't mean it isn't there. It may be there but 14 A <sup>14</sup> in a level lower than your detection limit. So If they're certi- -when they're using those two techniques, there is 15 MS. O'DELL: 16 Object to the form. <sup>16</sup> a lower detection limit that -- that is really If they're certifying it as 17 A <sup>17</sup> inadequate, I think, for Johnson & Johnson's purposes. Because you can't say that something <sup>18</sup> asbestos-free, then if I were Johnson & Johnson, 19 I wouldn't -- I wouldn't be accepting that, 19 is absent if you can only detect down to a tenth 20 because we've known all along that .1 is the <sup>20</sup> of a percent. And that's what's going on here. 21 lower detection limit using that -- that 21 **Q** Okay. And that's --22 technique. So you could have .05 percent 22 A This is very simple.

23 **Q** 

24 A

23 chrysotile in the sample, and their nondetect

<sup>24</sup> wouldn't ever say that. I mean, they just are

And that's just your opinion; right?

No. No. That's not my opinion, no,

Page 316 Page 314 <sup>1</sup> sir. <sup>1</sup> O That's the test. You agree with me 2 **O** Let me ask my question. That's just <sup>2</sup> that's the test, and then the results are <sup>3</sup> your opinion, but we've already established the <sup>3</sup> truthfully reporting as you're requiring, because <sup>4</sup> FDA J4-1 method that they're required to test 4 it says "none detected." <sup>5</sup> requires XRD; correct? 5 **A** Correct. Absolutely. 6 A 6 MS. O'DELL: Objection. Objection to form. <sup>7</sup> **Q** And we've already established that <sup>8</sup> you're not an expert and can sit here and say Just give me a moment. <sup>9</sup> that asbestos below a level of .1 percent is MR. FROST: <sup>10</sup> capable of causing human disease; correct? And, again, and you're saying that this <sup>11</sup> MS. O'DELL: 11 is only an implication that there's not asbestos 12 <sup>12</sup> in this product because you disagree completely Object to the form. 13 A Human disease I'm not an expert in. 13 with the --14 A 14 MR. FROST: I'm not --<sup>15</sup> Q Yeah. Exactly. 15 **Q** -- required testing method. 16 A So that has nothing to do with this. <sup>16</sup> MS. O'DELL: <sup>17</sup> **Q** And, again, they're saying free --17 Let him finish, please. 18 they're not saying there's no asbestos in here. 18 THE WITNESS: 19 They're saying --Sure. I'm sorry. 20 A Yes, they are. <sup>20</sup> MS. O'DELL: 21 21 **Q** And then let me do the object---No. <sup>22</sup> A 22 They say an absence of asbestos. Object to the form. That's the test name, if you look at 23 A 23 **O** I don't think that there's an <sup>24</sup> the column. They're saying none detected. <sup>24</sup> implication here at all. I think that this is Page 315 Page 317 <sup>1</sup> the crux of a large issue, and that is that J&J 1 A If they say "none detected," that's <sup>2</sup> would like for their talc product to be <sup>2</sup> fine. 3 **Q** And that's -- isn't that exactly what <sup>3</sup> asbestos-free. And that's great. But to say something is not detected 4 it says here? It doesn't mean asbestos-free. So if <sup>5</sup> when your lower detection limit is actually quite <sup>6</sup> they're putting this in the asbestos-free column 6 high, that doesn't show that something is absent <sup>7</sup> and they're using that statement to show that <sup>7</sup> from your product. It doesn't show that it's 8 asbestos-free. <sup>8</sup> it's asbestos-free, that's not right. 9 O So, again, where in this document does And "absent of" and "free of," if <sup>10</sup> it say asbestos-free? 10 you -- I mean, we can get out Webster's 11 dictionary if you want to and argue this. But I I thought that you said that's what the <sup>12</sup> column was labeled. would say that -- that most people would say that 13 **Q** 13 those two things mean the same. The test is absence of asbestos. 14 A That's asbestos-free. 14 MR. FROST: 15 **Q** And the -- no. It says absence of 15 O Okay. And, again, you'd agree with me <sup>16</sup> asbestos. You are changing the words. Look at 16 that Johnson & Johnson requires that a particular <sup>17</sup> test be run on its talc; correct? <sup>17</sup> the document. 18 MS. O'DELL: 18 A I think so. 19 Object to the form. 19 MS. O'DELL: <sup>20</sup> MR. FROST: Object to the form. 21 **Q** It says absence of asbestos. 21 MR. FROST: <sup>22</sup> O 22 A I'm not changing the words. Okay. And --Well, where does it say asbestos-free? 23 MS. O'DELL: 23 **O** 

24

Isn't "absence of" mean free of?

24 A

As to asbestos or as to what?

Page 320 Page 318 <sup>1</sup> MR. FROST: <sup>1</sup> problem. 2 O As to asbestos. Talking about Okay. Don't you agree with me that <sup>3</sup> every method of testing has a lower limit of <sup>3</sup> asbestos. 4 detection? 4 MS. O'DELL: <sup>5</sup> MS. O'DELL: Over time or --Object to the form. 6 MR. FROST: We're talking -- you know, right now <sup>7</sup> A That's -- that's tough. But I think, 8 we're talking J4-1, right, that testing method, 8 in general, that's probably a pretty good <sup>9</sup> the XRD testing method. <sup>9</sup> statement. You agree that that's the testing <sup>10</sup> MR. FROST: 11 method that Johnson & Johnson and Imerys used; 11 O Okay. 12 correct? 12 A I think the day is gonna come when --13 A That's right. 13 when there will be equipment that's good enough 14 to say, you know, under any circumstances, 14 O You also agree that that's the method 15 that the FDA, you know, requires that talcum <sup>15</sup> there's none there. 16 O <sup>16</sup> powder be tested for asbestos; correct? Okay. 17 MS. O'DELL: <sup>17</sup> A But I don't think we're quite there <sup>18</sup> yet. 18 Object to the form. 19 A 19 **Q** I agree with all of that --Okay. And, going to your scenario, if <sup>20</sup> you told your student to go test that sample 20 MR. FROST: 21 using XRD --21 **Q** Yeah. That's what I'm saying. 22 A -- except that that doesn't prove that 22 A Right. <sup>23</sup> a product is free of asbestos. It only proves 23 **O** -- and he tested it and came back and 24 that --24 said no asbestos --Page 319 Page 321 1 A 1 O I'm not asking that, sir. Right. Well, but that's what it said over and 2 A -- you wouldn't fail him for that <sup>3</sup> over again in the COAs is "free of." And they <sup>3</sup> because he was following the test; correct? <sup>4</sup> need to say it's free of down to a detection 4 MS. O'DELL: <sup>5</sup> level of .1 percent. 5 Object to the form. So your opinion is you just don't like No. I would. He should come back and 6 **O** <sup>7</sup> the terminology they're using, but you have no <sup>7</sup> say, "Why did you tell me to go to the x-ray 8 machine to do this?" <sup>8</sup> opinion that anything below a .1 would cause <sup>9</sup> disease or be dangerous to human health? 9 MR. FROST: <sup>10</sup> MS. O'DELL: 10 O So even though you told him to go --11 A 11 Object to the form. 12 **Q** 12 A No. You keep adding human health in So if you told somebody to go test 13 there. I'm not -- I'm not trying to opine about 13 something using this test method, you would still <sup>14</sup> human health. I'm just saying that if I had a 14 fail them when they came back and said "I used <sup>15</sup> student and I handed him a sample and I said "Is 15 the test method you told me and it" --16 there any asbestos in this or not," and he goes Well, it depends on what he comes back <sup>17</sup> to the x-ray machine and comes back and says, <sup>17</sup> with. If he comes back and says, you know, "I 18 know that there's a lower limit on the ability of <sup>18</sup> "No, I couldn't find any by x-ray," I'll probably 19 give him an F. 19 this equipment to detect asbestos and, based on 20 **Q** 20 that, I can't find any in here," he gets an A. Okay. 21 A 21 That's an A. Because it doesn't mean that there's no 22 <sup>22</sup> asbestos in that sample. It means that he If he comes back and he says, "Oh, I 23 couldn't detect it down to the lower detection <sup>23</sup> went up there and kicked the machine two or three

<sup>24</sup> limit of that machine. And -- and therein is a

24 times, you know, it wouldn't spit out an asbestos

- <sup>1</sup> determination, so I don't think there is any,"
- <sup>2</sup> well, I'd be irritated. That's not -- you know,
- <sup>3</sup> that's not a good -- a good answer to come back
- <sup>4</sup> to the teacher.
- 5 O Okay. And you'd agree with me that the
- <sup>6</sup> FDA knows that .1 percent is the lower detection
- <sup>7</sup> limit on XRD? I mean, everybody sort of knows
- <sup>8</sup> that.
- 9 A I think so, sure.
- 10 **O** Okay. And still that's the test method
- <sup>11</sup> that they've required; correct?
- 12 MS. O'DELL:
- 13 Object to the form. Misstates the law.
- 14 A As far as I know today, it -- it is. I
- 15 know that there are modifications being
- <sup>16</sup> considered for sure.
- <sup>17</sup> MR. FROST:
- 18 **Q** Okay. But, as of today, you agree with
- 19 me that that's --
- 20 A I think so.
- 21 MS. O'DELL:
- 22 Object to the form.
- 23 MR. FROST:
- 24 **O** Turn to page 37. Which I think we were

<sup>1</sup> types 30 and 40) and talc/carbonate schist (ore

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- <sup>2</sup> types 10 and 20.)"
- 3 **A** Right.
- 4 O Okay. You agree with me that nowhere
- <sup>5</sup> in here are they talking about ore type 66 which
- <sup>6</sup> was used in Johnson & Johnson in its talcum
- <sup>7</sup> powder?
- 8 MS. O'DELL:
- Object to the form.
- They don't mention it. 10 A
- <sup>11</sup> MR. FROST:
- <sup>12</sup> **Q** Okay. And, then, also on page 2, if
- 13 you look down to the next paragraph, second
- <sup>14</sup> sentence states, "Blast holes are analyzed for
- brightness, talc, and arsenic content and the
- <sup>16</sup> presence of amphiboles."
- <sup>17</sup> MS. O'DELL:
- Where are you reading, Jack?
- 19 MR. FROST:
- 20 It's third paragraph, second sentence.
- 21 MS. O'DELL:
- 22 Okay. Thank you.
- <sup>23</sup> MR. FROST:
- 24 **O** Did I read that correctly?

- 1 on page 37, weren't we?
- 2 A Yeah.
- 3 **Q** So I'm gonna turn to the bottom
- <sup>4</sup> paragraph.
- 5 A Okay.
- The second sentence starts: 6 **Q**
- <sup>7</sup> "Production drill data do not seem to include
- 8 asbestos (chrysotile or amphibole) testing, and
- <sup>9</sup> in relation to drill cores taken from the Hamm
- <sup>10</sup> mine, for example, Imerys did not sample talc ore
- 11 intervals containing visible fibrous amphibole."
- <sup>12</sup> Then you say Imerys 238270.
- 13 Did I read that correctly?
- I think you did. 14 A
- 15 **Q** Let's look at 238270.
- (DEPOSITION EXHIBIT NUMBER 29 16
- 17 WAS MARKED FOR IDENTIFICATION.)
- 18 MR. FROST:
- Do you recognize this document? 19 O
- 20 A
- 21 **Q** First I'll call your attention to the
- <sup>22</sup> second paragraph on page 2. And it states,
- <sup>23</sup> quote, "Generally speaking, there are two types
- <sup>24</sup> of Hamm ore: Massive talc/carbonate "grit" (ore

- 1 A Right.
- 2 **O** Okay. You'd agree with me that drill
- <sup>3</sup> holes are production drill data; correct? That
- <sup>4</sup> blast holes are part of the production drill data
- <sup>5</sup> a mine would produce?
- 6 MS. O'DELL:
- Object to the form.
- If you use them as such, yes. There --
- <sup>9</sup> there are plenty of companies that don't use them
- 10 other than just for blast holes.
- 11 MR. FROST:
- 12 **O** Okay. But here it seems like they are,
- <sup>13</sup> because it says they're testing it.
- Yes, correct. And that's -- you know,
- <sup>15</sup> that's one of the reasons I cited this.
- 16 O Okay. But, again, like you said, they
- <sup>17</sup> do not seem to include asbestos, chrysotile, or
- <sup>18</sup> amphibole. Don't they say directly here that
- 19 they're testing for the presence of amphibole?
- 20 A They do.
- 21 **Q** Okay.
- 22 A My issue was we didn't have any test
- <sup>23</sup> results for amphibole.
- Okay. But, again, this document -- you 24 **O**

- <sup>1</sup> know, the statement you attribute to this
- <sup>2</sup> document is that production drill data does not
- <sup>3</sup> seem to include asbestos, but it shows here
- <sup>4</sup> they're specifically testing for it; correct?
- <sup>5</sup> MS. O'DELL:
- Object to the form. That's not what
- <sup>7</sup> his statement is in his report.
- 8 MR. FROST:
- 9 **Q** Okay. Well, I thought I read it
- <sup>10</sup> correctly.
- 11 I'll also turn your attention to page
- <sup>12</sup> 4.
- 13 A Okay.
- 14 O And the last sentence says, "Talc ore
- 15 observed to contain fibrous amphibole was not
- <sup>16</sup> included in a sample interval."
- 17 And that's what you note in your
- <sup>18</sup> report; correct?
- 19 A Right.
- 20 **Q** Okay.
- 21 A Yeah, that would -- that -- I can't
- <sup>22</sup> understand why they wouldn't have pulled it out,
- 23 looked at it to see if it is truly asbestos or
- 24 not.

1 A No, no. They're rejecting the analysis

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- <sup>2</sup> of it. They don't say they're rejecting the --
- <sup>3</sup> the ore. I mean, that -- that would be a
- <sup>4</sup> completely different thing.
- If I -- if I was drilling at, say, Hamm
- 6 and pulled out a piece of drill core that had a
- <sup>7</sup> foot of cross-fiber asbestos in it, I'd sure want
- 8 to know everything about it, where it was, where
- <sup>9</sup> it went, is it truly asbestos, what's the
- <sup>10</sup> mineralogy, what's it associated with. I
- 11 wouldn't remove it from the core and throw it
- 12 away.
- 13 **O** So, based on this one single sentence
- <sup>14</sup> in this one document, you are assuming that
- <sup>15</sup> because they're not testing what they already
- <sup>16</sup> have identified as fibrous amphiboles, that
- <sup>17</sup> they're including it in the ore?
- 18 MS. O'DELL:
- 19 Object to form.
- 20 A No, no. I didn't say that at all.
- 21 MR. FROST:
- But -- so the whole point of testing's
- 23 to figure out where, for example, asbestos would
- 24 be and where it wouldn't be in the deposit;

- 1 **Q** Well, that -- that kind of becomes my
- <sup>2</sup> question.
- Sorry. I didn't mean to interrupt him.
- 4 If you're not done -- sorry.
- <sup>5</sup> MS. O'DELL:
- You may finish. 6
- 7 A Yeah. That was one of the reasons that
- 8 I mentioned this. And there -- there are other
- <sup>9</sup> places where it's pretty clear that they -- they
- <sup>10</sup> actually rejected core from analysis, and yet
- 11 they mention amphiboles. And it was like, "Okay.
- 12 There's some amphibole. We're not analyzing this
- 13 stuff." You got that feeling from looking at
- 14 some of this material.
- 15 MR. FROST:
- Well, what would be the purpose of 16 **Q**
- <sup>17</sup> testing something you already know contains
- 18 fibrous amphibole? Don't they already know
- 19 there's asbestos in that?
- 20 A To determine whether or not it really
- 21 is asbestos.
- 22 **Q** Well, if they're rejecting it because
- 23 it has fibrous amphibole, who cares if it is
- 24 actually --

- 1 correct?
  - 2 A It's -- it's that and to determine
- <sup>3</sup> the -- the characteristics of the fibrous
- 4 amphibole.
- And, again, if you're trying to come up
- <sup>6</sup> with a mine plan, you're trying to figure out
- <sup>7</sup> where you should take ore from and where you
- 8 shouldn't. Correct?
- Correct. And this is -- I mean, this
- 10 is part of my point. I mean, what happens if the
- <sup>11</sup> geologist that logged this core leaves and takes
- another job and you hire somebody else? He has
- 13 to come in and pick up where the other guy left
- 14 off, and he's charged with helping to devise the
- <sup>15</sup> mine plan, and that interval's gone.
- 16 **Q** Let me -- that's a great question, too.
- 17 A I mean --
- 18 **Q** No, no. Hold on.
- 19 Where in the sentence does it say
- 20 they've left it out of the mine plan?
- 21 A The mine plan isn't -- isn't mentioned
- <sup>22</sup> here. I'm just using that as an example of
- 23 how --
- 24 **Q** Well, I was gonna say --

	Page 15. 238	<del>57</del> 6	7. Ph.D. Ph.D.
	Page 330		Page 332
1	A this could be very, very bad.	1	A The concern is that they didn't pull it
2	MS. O'DELL:	2	out and test it. And there are other there
3	Let him finish.	3	are other statements, maybe not in this
4	MR. FROST:	4	particular document, where they actually talk
5	Q So you're speculating that because they	5	about removing the intervals and throwing them
6	weren't specifically testing something they've	6	away.
7	already identified as asbestos, that they're	7	Q Okay. So, again, your whole basis is
8	leaving it out of the mine plan?	8	they've identified it's asbestos, but they
9	A Did they call that asbestos?		haven't tested to see exactly what type of
10	Q They called it fibrous amphibole.	10	asbestos it is?
11	A Right.	11	A Fibrous amphibole.
12	Q So	12	MS. O'DELL:
13	But you're saying the whole theory is	13	Excuse me.
14	that somebody might come later and might not know	14	MR. FROST:
15	what it is. But that means that this wasn't	15	Q Okay.
16	included on a mine plan.	16	MS. O'DELL:
17	A That's not what I said.	17	Excuse me. Just let me object.
18	Q So you're drawing a	18	MR. FROST:
19	No, no?	19	Okay.
20	You're drawing a lot of conclusions	20	MS. O'DELL:
21	that aren't supported by this document. Do you	21	Give me a minute.
22	agree with me?	22	THE WITNESS:
23	A That is not	23	Sure.
24	MS. O'DELL:	24	MS. O'DELL:
		1	
	Dogg 221		Daga 222
1	Page 331	1	Page 333
1 2	Excuse me.	1 2	Don't interrupt him.
2	Excuse me.  A That is not what I said.	2	Don't interrupt him. MR. FROST:
2	Excuse me.  A That is not what I said.  MR. FROST:	2 3	Don't interrupt him.  MR. FROST:  Q Okay. Can you turn to page 1, please.
3 4	Excuse me.  A That is not what I said.  MR. FROST:  Q Okay. Let's turn to page	2 3 4	Don't interrupt him.  MR. FROST:  Q Okay. Can you turn to page 1, please.  MS. O'DELL:
2 3 4 5	Excuse me.  A That is not what I said.  MR. FROST:  Q Okay. Let's turn to page  A I did not say that.	2 3 4 5	Don't interrupt him.  MR. FROST:  Q Okay. Can you turn to page 1, please.  MS. O'DELL:  Object to the form.
2 3 4 5	Excuse me.  A That is not what I said.  MR. FROST:  Q Okay. Let's turn to page  A I did not say that.  MS. O'DELL:	2 3 4 5 6	Don't interrupt him.  MR. FROST:  Q Okay. Can you turn to page 1, please.  MS. O'DELL:  Object to the form.  Have you finished your answer, Doctor?
2 3 4 5 6 7	Excuse me.  A That is not what I said.  MR. FROST:  Q Okay. Let's turn to page  A I did not say that.  MS. O'DELL:  He's not finished yet.	2 3 4 5 6 7	Don't interrupt him.  MR. FROST:  Q Okay. Can you turn to page 1, please.  MS. O'DELL:  Object to the form.  Have you finished your answer, Doctor?  If you have, fine.
2 3 4 5 6 7 8	Excuse me.  A That is not what I said.  MR. FROST:  Q Okay. Let's turn to page  A I did not say that.  MS. O'DELL:  He's not finished yet.  A This is very simple. When you're	2 3 4 5 6 7 8	Don't interrupt him.  MR. FROST:  Q Okay. Can you turn to page 1, please.  MS. O'DELL: Object to the form. Have you finished your answer, Doctor?  If you have, fine.  MR. FROST:
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couple of inches into the contacting talc ore."
 So they certainly documented where it

<sup>3</sup> was they found the fibrous amphiboles.

<sup>4</sup> A Sure.

<sup>5</sup> Q And they've identified what type of

<sup>6</sup> fibrous amphibole it is. So it's clearly part of

<sup>7</sup> the mine knowledge. They've identified that it's

8 actinolite and that it's fibrous, and they've

<sup>9</sup> also identified that it only extends a couple

<sup>10</sup> inches into the ore body. Is that correct?

<sup>11</sup> A That's correct.

<sup>12</sup> Q And you also -- you note somewhere else

in your report in the beginning that, as a rule

<sup>14</sup> of thumb, they used, you know, exclusion zones.

15 And that's --

<sup>16</sup> A Selective mining.

<sup>17</sup> Q Yeah.

So, again, if they know where it is,

19 they know how far it extends into the dike and

<sup>20</sup> it's -- they're using exclusion zone, don't they

21 know where this fibrous amphibole is and aren't

22 they avoiding it?

23 MS. O'DELL:

Object to the form.

<sup>1</sup> information.

<sup>2</sup> A No. If there was only one drill hole

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<sup>3</sup> and if the ore deposit was bounded by a flat

<sup>4</sup> plane or surface and you have a drill hole that

<sup>5</sup> goes through it and you know that the ore body

<sup>6</sup> margin is a flat plane, then you can design

<sup>7</sup> your -- your -- your -- your mine to stay away

<sup>8</sup> from that one point.

The problem with this is that the ore

<sup>10</sup> bodies are irregular in shape. So you have a

11 drill hole. Yep, we found a little bit of

<sup>12</sup> asbestos, but you don't know five feet away

<sup>13</sup> whether or not you've got asbestos. You don't

<sup>14</sup> know whether it will be a foot thick or

<sup>15</sup> millimeter thick or if it's gonna be there at

<sup>16</sup> all.

Okay. But, again, that's, one,

<sup>18</sup> different than what you said here in the report,

<sup>19</sup> but, two, what I'm getting at, isn't interpreting

<sup>20</sup> the drill holes and interpreting, you know,

<sup>21</sup> what's coming in and out of the mine what the

<sup>22</sup> mine engineer does? Isn't what they

<sup>23</sup> extrapolate -- extrapolate based on their

<sup>24</sup> experience within the ore and they extrapolate

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A In that one point where that one drill

<sup>2</sup> hole goes through the zone that has fibrous

<sup>3</sup> amphibole, we're gonna assume it's asbestos.

But you're looking really at a

<sup>5</sup> one-dimensional point in a three-dimensional

<sup>6</sup> space. So how do you design your mine around

<sup>7</sup> that point?

8 I mean, if -- if the ore body was

<sup>9</sup> bounded by absolutely vertical straight walls

<sup>10</sup> that extend in all directions to infinity, then

<sup>11</sup> that one drill hole is really all you need, and

12 you -- you can design a mine around that one

<sup>13</sup> hole.

But that's not -- that's not the shape,

15 size of the ore bodies out here.

<sup>16</sup> MR. FROST:

Okay. You're confusing me again.

<sup>18</sup> Where does it say that it's only one ore sample

<sup>19</sup> they ever found fibrous amphibole in?

<sup>20</sup> A I didn't say that.

<sup>21</sup> Q Well, that's what your answer you just

22 gave me implied, that --

<sup>23</sup> A No. I said --

<sup>24</sup> Q -- it -- that they wouldn't have

<sup>1</sup> based on their production drill holes, based on

<sup>2</sup> the exploratory drill holes, what they expect the

<sup>3</sup> talc body to look like?

<sup>4</sup> A Absolutely.

<sup>5</sup> MS. O'DELL:

6 Object to --

Excuse me. I object to the form of the

<sup>8</sup> question. I object to the commentary. Misstates

<sup>9</sup> the report.

10 MR. FROST:

I don't believe there was any

<sup>12</sup> commentary, but --

13 MS. O'DELL:

14 There was commentary leading up.

<sup>15</sup> A I understand your question. The -- the

<sup>16</sup> mining superintendent, which at Argonaut was one

<sup>17</sup> of my former students for four years, they are

18 charged with taking all the data that we're

19 talking about and designing a mine plan that

<sup>20</sup> insures that J&J is not gonna receive a product

coming out of the West Windsor mill that's got

22 asbestos in it. And that -- that is a very --

23 that's a tough order. I mean, you've got to be

24 on your toes and --

- And, in my experience, it's not -- it's <sup>2</sup> not a good idea to -- to ignore something that
- <sup>3</sup> you see in drill core that may be deleterious
- <sup>4</sup> without -- without testing it, maybe even
- <sup>5</sup> drilling a second hole.
- There's a process known as hole
- <sup>7</sup> twinning, and a person might have wanted to --
- 8 it's almost like the duplicate analysis. It
- <sup>9</sup> doesn't find anything the second time. Sometimes
- 10 you drill a second hole five feet away and
- <sup>11</sup> there's nothing there. Hey, good.
- 12 MR. FROST:
- 13 **Q** So this is why I'm confused. I mean,
- <sup>14</sup> again, this document doesn't talk about twinning.
- 15 It doesn't talk about ---
- 16 A No. no.
- 17 **Q** They may have been doing all these
- <sup>18</sup> things. You're talking now in sort of
- <sup>19</sup> generalities as far as mining goes.
- 20 A I'm trying to be as specific as I can.
- 21 MS. O'DELL:
- 22 Object to the form.
- 23 MR. FROST:
- 24 O But what I'm saying is --

- Page 340 <sup>1</sup> that all fibrous amphibole is asbestos? It's
  - <sup>2</sup> fine with me if we do.
  - <sup>3</sup> MR. FROST:
  - 4 O Well, they called it here fibrous
  - <sup>5</sup> amphibole actinolite.
  - I know. They don't use the word 6 A
  - <sup>7</sup> "asbestos."
  - 8 Q Okay.
  - A Okay. So -- so let's call it asbestos.
  - <sup>10</sup> To know whether or not something's actinolite,
  - you've got to know the chemistry, and you can't
  - do that by logging drill core.
    - If it's -- if it's a green fibrous
  - amphibole, then if I was logging it, I'd assume
  - it was actinolite. Okay. Go with it. I --
  - The point of all this is that --
  - that -- that a fibrous amphibole in a drill hole,
  - even if it's at the ore body margin, is an
  - <sup>19</sup> important thing.
  - 20 **Q** Okay.
  - 21 A And I would have done more than just --

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- 22 than just pass it off, which is the feeling that
- <sup>23</sup> I got when I read that, that they didn't do
- <sup>24</sup> anything with it but record it. So, okay.

- Let's see. What do we have here?
- So you have, "Imerys did not sample
- <sup>3</sup> talc ore intervals containing visible fibrous
- 4 amphiboles. This is contrary to all accepted
- <sup>5</sup> sampling practices."
- But, again, if they know that this
- <sup>7</sup> particular section of the drill core contained
- 8 asbestos, we know they've identified where it is
- <sup>9</sup> on the mine plan because they say that on, one,
- 10 fibrous amphibole was observed only within the
- 11 chloritized mafic dikes, extending in places a
- 12 couple inches into the containing [sic] talc ore.
- 13 We know they've already identified it as
- <sup>14</sup> actinolite asbestos.
- 15 A Well, they describe --
- What are they leaving out of the 16 O
- <sup>17</sup> analysis? Just that they're confirming that what
- 18 they believe is fibrous amphibole actinolite
- <sup>19</sup> actually is fibrous amphibole actinolite?
- 20 MS. O'DELL:
- 21 Object to the form. Misstates the
- <sup>22</sup> document.
- Well, to start with, they call it
- <sup>24</sup> fibrous amphibole. Okay? Are we gonna assume

- 1 O And can you give me --
- Because you say here, you know, that
- <sup>3</sup> this is contrary to all accepted sampling
- <sup>4</sup> practices.
- 5 A Yes.
- What are you relying on for that? What
- <sup>7</sup> published literature, what regulation, what law?
- 8 A There's --
- Oh, this isn't a legal issue at all.
- 10 But if you --
- 11 There are many books that have been
- <sup>12</sup> written about the evaluation and sampling of a
- 13 mine. And when you -- when you hit a critical
- 14 interval, if it's a channel sample underground
- that you're cutting with your rock hammer, if
- <sup>16</sup> you're digging a trench at the surface, if you're
- <sup>17</sup> drilling a drill hole, when -- when you -- when
- you hit something that's significant relative to
- 19 the commodity you're looking at, you normally do
- 20 more with it than just make a note, "Oh, there it
- 21 is," and move on.
- 22 **O** Okay. And what from this document
- <sup>23</sup> implicates to you that they just moved on from it
- and they didn't put it in the mine plan?

Page 344 Page 342 1 A We have no mine plan. And a lot of times you blame that on 2 **Q** <sup>2</sup> the driller, but -- but it may simply be because So --3 A We've asked for the mine plan. <sup>3</sup> of a characteristic of the rock itself. So you're basing everything off the 4 Q And, so, there -- when you -- when you <sup>5</sup> fact that you haven't seen a mine plan? So <sup>5</sup> look at all the drill core data, what you find is <sup>6</sup> you've read that in conjunction with this 6 that there -- there are drill holes that -- that <sup>7</sup> document to say that they are just ignoring the we have missing -- we have missing core, and it's 8 fibrous amphibole that they're finding and moving not the fault of anybody. Probably it's just the 9 on, which is contrary to standard -rock. 10 MS. O'DELL: 10 Then we have areas where there's 11 11 actually notations that the drill core has been Excuse me --12 A That's absolutely not what I said. discarded, removed from the core box, and thrown 13 MS. O'DELL: away. And that's suspicious. 14 Q Excuse me. Object to the form. 14 Okay. 15 A 15 A Did not say that. And that's, you know, part of the big <sup>16</sup> picture here. <sup>16</sup> MS. O'DELL: 17 Object to the form. Misstates his 17 O But, again, the only document you're <sup>18</sup> testimony. showing for reliance to the statement that this 19 is contrary to all accepted sampling practices is 19 A Really. I didn't say that. 20 MR. FROST: <sup>20</sup> Imerys 238270, which shows that they have 21 identified there's a potential problem in the 21 **O** So, again, what -- what is it that <sup>22</sup> body. They've also identified where it is, and 22 they're doing here that is contrary to standard? 23 Is it purely that they're not testing to see 23 they've identified that they're avoiding it; 24 exactly what the fibrous actinolite or the --24 correct? Page 343 Page 345 What do they call it? 1 <sup>1</sup> MS. O'DELL: -- fibrous amphibole actinolite is? Is Object to the form. He just stated 3 that -- is that your --<sup>3</sup> that there are numerous other references. You're Your main gripe is that they haven't <sup>4</sup> misstating his testimony. <sup>5</sup> confirmed whether or not it's asbestiform or not This -- this document doesn't say that <sup>6</sup> they're avoiding it. I don't think it does. 6 asbestiform? 7 A That would be --<sup>7</sup> MR. FROST: 8 Q 8 MS. O'DELL: Well, this document says where it is in 9 Object to the form. the ore body; correct? 10 A That would be a complaint. 10 A Absolutely. 11 Q <sup>11</sup> MR. FROST: And we know from your report, even, you 12 **Q** Okay. state that there's a margin of exclusion. So 13 A But -- but this is part of a larger 13 anything extending --14 picture. You know, as I mentioned, I think that 14 What do they say? 15 there -- there are other instances where the -- quote, a couple of inches into the 16 logging of drill core ended up with a couple of contacting talc ore we know would be outside of <sup>17</sup> issues, one. And this is typical of diamond the exclusion area, which you said was at least <sup>18</sup> drilling. You don't have a hundred percent core one bucket. <sup>19</sup> recovery anyway. MS. O'DELL: 20 20 And, so, it's difficult to make mine Object to the form. Misstates his 21 plans when you've got -- when you're pulling core <sup>21</sup> report. 22 intervals where you've drilled 10 feet, you've 22 A No. I -- I don't agree with that at 23 got 3 feet of core. So you go, "Wait a minute, <sup>23</sup> all. I mean, that was why I gave the example.

24

24 you know, "What have I missed?"

If the margin of the ore body is a

<sup>1</sup> straight, flat plane, that's one thing. You

<sup>2</sup> can -- if you've got something going two inches

<sup>3</sup> into it, by George, stay five feet away.

But that's not what the margins of

<sup>5</sup> these ore bodies are like. They're irregular.

6 MR. FROST:

7 **Q** Okay.

8 A And, so, if you're gonna produce a mine

<sup>9</sup> plan that assumes that you've got two inches of

<sup>10</sup> an asbestiform mineral here and so you -- you

11 plan your scope or your bench based on that but

12 your bench may be 15 feet this way and you're

13 assuming that it's here, well, this thing could

14 be irregular, and the margin of the ore body may

<sup>15</sup> be over here and you don't know it because your

16 next drill hole is way up here.

<sup>17</sup> Q Okay.

18 A That's what I'm trying to say.

19 **Q** And it sounds like your opinion is a

<sup>20</sup> problem with all mining, because that's true of

<sup>21</sup> every ore body that's gonna be irregular;

22 correct?

23 MS. O'DELL:

Object to the form.

1 types of mining, that you are relying on the

<sup>2</sup> quality of the mine supervisor and the data in

<sup>3</sup> order to define where the ore body is. Is that a

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4 fair statement?

<sup>5</sup> MS. O'DELL:

Object to the form.

7 A I think that that's, you know, that

8 could be the opening sentence on a paragraph on

<sup>9</sup> ore reserve estimation.

<sup>10</sup> MR. FROST:

11 O Okay.

I mean, it's just standard -- you know,

13 standard protocol in mining. You take all your

data and figure out where the ore is.

Then later, turning back to 37, next

<sup>16</sup> sentence down, you wrote, "By 2006, all Imerys

<sup>17</sup> Vermont talc production was from a single open

pit in the Argonaut mine that produced 150,000

19 tons of talc per year," and you note "none used

for cosmetic purposes in the United States

<sup>21</sup> (Imerys 499538)."

22 Correct?

23 MS. O'DELL:

I'm sorry. Where are you?

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<sup>1</sup> MR. FROST:

And it's not specific to what's going 2 O

<sup>3</sup> on here. I believe this is the Hamm mine.

4 A It --

<sup>5</sup> MS. O'DELL:

6 Object to the form.

7 A It can be better or worse. But -- but

8 the idea is, yes, ore bodies are, you know --

<sup>9</sup> with some exceptions, they can be irregular

<sup>10</sup> things. And it's very common to have wall rock

11 mixed in with ore when you're over near the side

12 of an ore body. And -- and in these, it's pretty

13 tough to know, particularly underground. It's

14 rough.

<sup>15</sup> MR. FROST:

Okay. But, again, that's what the mine

<sup>17</sup> supervisor's for. That's why you have these

<sup>18</sup> drilling campaigns; correct?

That's right. 19 A

<sup>20</sup> MS. O'DELL:

21 Object to the form.

22 MR. FROST:

And, you know, so what you're saying is

<sup>24</sup> a basic statement that applies to, you know, all

I think that's right. 1 A

<sup>2</sup> MR. FROST:

37 to 38.

4 MS. O'DELL:

Oh, at the bottom. Okay.

MR. FROST:

7 The bottom.

Next sentence is, "Serpentine and

arsenic occurred near the edges of the ore zone,

<sup>10</sup> and ore quality control by segregation of the

mine was inadequate."

Okay. You'll agree with me now, by

<sup>13</sup> 2006, again, Johnson & Johnson was no longer

<sup>14</sup> using Vermont talc for its cosmetic talcum

powder?

16 A

<sup>17</sup> O Okay. And you'll also agree with me

that, by this point, the mine itself was

producing industrial talcs. Correct?

<sup>20</sup> A I think that's correct.

<sup>21</sup> **O** Okay. Staying on 38 --

22 Bear with me a second here. I guess

<sup>23</sup> more of a general question than specific

<sup>24</sup> question, but you'd agree with me, based on the

Philed 08/22/24 Page 90 of 130 Page 352 <sup>1</sup> documents that you have, that you can't make a <sup>1</sup> composite on the back end. Correct? <sup>2</sup> full map of sampling frequency, where exactly <sup>2</sup> MS. O'DELL: <sup>3</sup> samples were coming from, you know, how they Object to the form. <sup>4</sup> were -- how they were being taken. I think we 4 A The --<sup>5</sup> covered this earlier. Is that correct? I think that -- that your statement is 6 MS. O'DELL: 6 correct, based on what your own documents say. <sup>7</sup> MR. FROST: Object to the form. What type of --8 MR. FROST: 8 O Uh-huh. You know, there are -- there are holes 9 Q You know, they say, you know, sampling 10 intervals will be such and so, at what points <sup>10</sup> in the documents about frequency of testing, <sup>11</sup> frequency of sampling, things of that nature. 11 they're gonna be. 12 Correct? We know that we don't have all the data 13 A Are you talking about in the mine or in 13 for -- for the mines. Because if they're gonna 14 the mill of --<sup>14</sup> analyze the cutting from blast holes, there's got 15 to be just tons of analyses out there. 15 **Q** In general in the mines. Exactly. 16 **Q** 16 MS. O'DELL: Okay. 17 Excuse me. Object to the form. 17 A And -- and -- and, in the mill, it's 18 What specific types of --<sup>18</sup> very difficult to know because, you know, when 19 you're looking at -- at compositing samples that 19 MR. FROST: <sup>20</sup> are taken, you know, that -- that becomes a 20 Well, that's what we were trying to <sup>21</sup> different issue in itself. <sup>21</sup> define. <sup>22</sup> O 22 **O** You know, we're talking about in Okay. All right. We're in agreement <sup>23</sup> general. You know, we'll start with there 23 that you certainly -- whether or not it was <sup>24</sup> produced, not produced, you know, you don't have <sup>24</sup> appears to be -- you know, you don't have a Page 351 Page 353 <sup>1</sup> complete -- you don't have a complete set of all <sup>1</sup> a complete set of all the sampling that was done <sup>2</sup> at the mines, mills, and on the composite back <sup>2</sup> drill core sampling; correct? <sup>3</sup> MS. O'DELL: <sup>3</sup> end. Is that a fair summary? 4 MS. O'DELL: Object to the form. <sup>5</sup> MR. FROST: Object to the form. 6 **Q** In your documents. 6 A Yeah. 7 MS. O'DELL: 7 A I don't know that. "Composite back end," I'm not sure what 8 O Okay. But you cert- -- there certainly <sup>9</sup> doesn't appear that you have -- and I think <sup>9</sup> you're referring to. 10 you've identified earlier that you appear to be 10 MR. FROST: 11 **Q** <sup>11</sup> missing years and missing drill core area; Yeah. The composite back end testing 12 correct? <sup>12</sup> of the --13 MS. O'DELL: 13 A Yeah. I think the word --14 Q Object to the form. He didn't say that -- the ground product. <sup>15</sup> in his testimony. Not in regard to drill core. -- isn't "sampling," but we don't have 15 A We -- we have maps that show the <sup>16</sup> a complete set of analytical data. We know about <sup>17</sup> the sampling, but it's -- it's the data and more <sup>17</sup> location of drill holes. We do not have logs for 18 information related to the data that we don't <sup>18</sup> all of those drill holes. 19 MR. FROST: 19 have. 20 **Q** Okay. And the same thing with Okay. That's a more precise way of 21 sampling. It does not appear that you have a 21 saying it.

22 A

23 **Q** 

24 A

Yeah. Sure.

Okay.

Okay. Turn to page 39.

For the mines?

23 A

24 **Q** 

<sup>22</sup> complete set of the sampling records; correct?

For the mines, the mill, and for the

- Q You say, quote, "It is inadequate -- it
   is inadequate to collect a single daily or hourly
- <sup>3</sup> hand or grab sample from an ore stockpile in
- <sup>4</sup> front of a crusher, or from a conveyor belt
- <sup>5</sup> leaving a grinding circuit, and assume that this
- <sup>6</sup> one sample or a composite, perhaps a kilogram in
- <sup>7</sup> size, is representative of a day's production of
- 8 several hundred tons."
- <sup>9</sup> Did I read that correctly?
- <sup>10</sup> A Yep.
- Don't you agree with me the only way to
- <sup>12</sup> determine whether or not a sample is actually
- 13 representative of the whole is to conduct a
- 14 geostatistical analysis of that sample versus the
- 15 size?
- <sup>16</sup> MS. O'DELL:
- Object to the form.
- <sup>18</sup> A Well, I think that it's much more than
- 19 that. I would -- I would say that -- that, if I
- <sup>20</sup> was designing a sampling program for, let's say,
- 21 the West Windsor mill, I would want to have a
- <sup>22</sup> person that was in charge of sampling and
- <sup>23</sup> analyses.
- We have somebody like that at one of

- <sup>1</sup> sample was taken.
- <sup>2</sup> A Right. You may have a day that it is,
- <sup>3</sup> but the problem is you may have a day when it
- 4 really isn't and something slips by that you
- <sup>5</sup> don't want to slip by.
- 6 Q But what I'm getting at is the only way
- <sup>7</sup> to truly derive if something is representative is
- 8 to run the --
- <sup>9</sup> You know, all of the literature agrees
- 10 that the only way to truly determine something is
- 11 representative or not is to run a statistical
- <sup>12</sup> analysis of it; correct?
- 13 MS. O'DELL:
- Object to the form.
- <sup>15</sup> A You -- you determine the -- the
- 16 confidence interval of the process that you're
- <sup>17</sup> proposing. And if you wanted to have something
- 18 that you were 95 percent confident was correct,
- 19 then, you know, you begin to work backwards and
- <sup>20</sup> take a look at how you're sampling.
- 21 MR. FROST:
- <sup>22</sup> Q Okay.
- <sup>23</sup> A I mean, that's a process -- a technique
- 24 that's been around for a long time.

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- <sup>1</sup> our mines up the road here. It adds a nickel a
- <sup>2</sup> ton to the cost of our production, and -- and yet
- <sup>3</sup> we are able to sample daily multiple times and
- <sup>4</sup> run all the samples that day, and at the end of
- <sup>5</sup> the day, we know what's gone in the railcar.
- <sup>6</sup> There is no ambiguity at all.
- And that's not what -- what's been
- <sup>8</sup> done.
- <sup>9</sup> MR. FROST:
- <sup>10</sup> Q Okay.
- 11 A I mean, you can't just grab a few
- <sup>12</sup> pieces of rock and analyze them and say, "Oh,
- that's -- that's representative of what we mined
- 14 today."
- "Well, how many tons did you mine?"
- "Oh, it was three or four hundred
- <sup>17</sup> tons."
- That doesn't work.
- Well, let's see. Even you say, the
- 20 next sentence down, that -- you say -- you
- 21 yourself say it may or may not be representative;
- <sup>22</sup> correct? You say it may or may not be
- <sup>23</sup> representative of the material processed on the
- <sup>24</sup> individual sample -- on the day the individual

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- But it's very difficult to apply that
- <sup>2</sup> to feed coming into a plant. And that was my
- <sup>3</sup> point. You know, if you don't -- if you don't
- <sup>4</sup> have a formal sampling, you know, analysis
- <sup>5</sup> program set up where ore enters the mill or,
- <sup>6</sup> let's say, enters a stockpile that's gonna feed
- <sup>7</sup> the mill from, then -- then I think that you've
- <sup>8</sup> got an issue right from the very start. Because
- <sup>9</sup> no matter what you feed your statistical
- analysis, if you're not collecting your samples
- <sup>11</sup> properly, it's not -- not gonna matter what the
- 12 mass says.
- And believe me, we've -- we've been
- <sup>14</sup> gigged on this. We have had railcars --
- We ship out in 60-car lots, and we have
- <sup>16</sup> had whole trainloads rejected because of
- out-of-spec ore in one car. And when you're
- 18 losing 60 -- 59 other cars that are probably
- <sup>19</sup> good, I mean, this -- this is an important point.
- Okay. You'd agree with me the reason
- 21 you say you may or may not be representative is
- because you haven't done any calculations as to
- <sup>23</sup> the confidence interval; correct?
- <sup>24</sup> MS. O'DELL:

Object to the form. Misstates his testimony.

<sup>3</sup> A No. Like I said, I haven't done any

- <sup>4</sup> mathematical analysis of anything. But I've
- <sup>5</sup> certainly been involved with exactly what we're
- <sup>6</sup> talking about forever more. I mean, it's a --
- <sup>7</sup> it's a serious point with me.
- 8 MR. FROST:
- <sup>9</sup> Q But, again, your conclusion here isn't
- <sup>10</sup> that it absolutely is or it absolutely is not.
- 11 You say it may or may not be. That's your --
- <sup>12</sup> that's your ultimate conclusion. That's correct?
- <sup>13</sup> A Any --
- 14 MS. O'DELL:
- Excuse me.
- 16 THE WITNESS:
- Yeah. Sure.
- 18 MS. O'DELL:
- Object to form.
- <sup>20</sup> A Any given example may or may not be in
- 21 that.
- <sup>22</sup> MR. FROST:
- <sup>23</sup> Q All right. Page 40. It's technically
- <sup>24</sup> the second full paragraph there, third paragraph

<sup>1</sup> Q You'll -- we will agree that TEM is an

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- <sup>2</sup> appropriate instrument to use to test to see if
- <sup>3</sup> there is asbestos in talc; right?
- <sup>4</sup> A Yes.
- <sup>5</sup> Q And I take it your issue with this
- <sup>6</sup> parameter is the five-fiber detection limit?
- <sup>7</sup> A Well, I can explain it maybe a little
- <sup>8</sup> bit better than I stated it.
- <sup>9</sup> If you have a background that is one
- and you find three fibers and, yet, to be
- quantifiable you need five, then why aren't the
- 12 three fibers reportable since they are over the
- <sup>3</sup> background?
- That's -- that was the concept in what
- <sup>15</sup> I wrote there. And it almost seems like the use
- <sup>16</sup> of quantifiability is evading the issue of tiny
- amounts of material that may be there but in a
- <sup>18</sup> small increment over the -- the background.
- <sup>19</sup> Q Have you calculated what you determine
- 20 to be the proper detection quantitifield --
- 21 quanti- --

1 Q

- <sup>22</sup> A I know.
- 23 Q You know the word I'm trying to say?
- <sup>24</sup> A Right.

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- <sup>1</sup> on the page, bottom two sentences:
- <sup>2</sup> Five particles of the same asbestiform
- <sup>3</sup> mineral were required for asbestos to be
- <sup>4</sup> considered quantifiable. Amounts less than this
- <sup>5</sup> were considered background or below detection
- <sup>6</sup> limits. This suggests that something may [sic]
- be quantifiable if present, and this is not the
   case.
- 9 Did I read that correctly?
- <sup>10</sup> MS. O'DELL:
- 11 "Must be"?
- 12 MR. FROST:
- 13 Yes
- 14 Q Must be quantifiable if present, and
- 15 this is not the case.
- <sup>16</sup> A Yeah.
- <sup>17</sup> Q Okay.
- 18 A That -- that's -- that's right.
- 19 Q All right. Are you an expert in
- <sup>20</sup> designing TEM test methodologies?
- <sup>21</sup> A No.
- 22 Q Have you ever designed test
- <sup>23</sup> methodologies for testing asbestos in talc?
- <sup>24</sup> A No.

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Have you run a calculation to detect

- <sup>2</sup> what the appropriate level should be?
- <sup>3</sup> MS. O'DELL:
- 4 Object to the form.
- Well, like I said, I'm not a -- I'm not
- <sup>6</sup> a statistician. But I have -- I have done some
- <sup>7</sup> back-of-the-envelope, and -- and this is -- this
- <sup>8</sup> is what I see.
- 9 If you take a hundred analyses, 95 of
- 10 them show nothing, five of them show one fiber,
- 11 and those hundred analyses are of blanks, then
- 12 what are you gonna call your background if 95 of
- 13 them show nothing? I would say that background
- 14 is zero.
- 15 If background is zero, then if you find
- <sup>16</sup> four fibers, there's something in that sample,
- and yet it's not quantifiable. And, so, from the
- 18 standpoint of that kind of math, yeah. I mean,
- <sup>19</sup> but anybody can do that.
- <sup>20</sup> Q Do you know who Walter McCrone is?
- 21 A Sure.
- <sup>22</sup> Q And do you know who James Millette are?
- <sup>23</sup> A Well, we've been talking about
- <sup>24</sup> Millette. I don't think that I know James

Page 364 Page 362 <sup>1</sup> Millette. <sup>1</sup> it down at the bottom, and I can't read it. It's 2 **Q** <sup>2</sup> minuscule. Okay. 3 **Q** 3 **A** We know some Millettes but not him. I believe it's 1990, by the -- the 4 O All right. Would you agree with me <sup>4</sup> journal. <sup>5</sup> that Walter McCrone is generally considered to be 5 A Okay. 6 a leader in the field of TEM testing and If you look to the first page on the 6 **Q** <sup>7</sup> technologies? <sup>7</sup> journal, Volume 38, Fourth Quarter, 1990. 8 A 8 MS. O'DELL: Oh. Okav. I've got it. Sure. Object to the form. <sup>9</sup> MS. O'DELL: 10 A He is certainly a leader in polarized Yeah. And Kremer, K-R-E-M-E-R. 11 light microscopy. And I think that -- that, as <sup>11</sup> MR. FROST: 12 time went on, he became a real expert in TEM 12 Yeah, K-R-E-M-E-R. "Creamer," maybe. <sup>13</sup> analysis. 13 O Turn to page 463. Under number 6, <sup>14</sup> Limit of Quantifiable Detection. 14 MR. FROST: And because it seems like you know a 15 A Okay. <sup>16</sup> bunch of Millettes but not the James Millette, 16 O Do you see here that they note "The 17 you can't tell me whether or not he's a leader -detection limit of five or more asbestiform Well, there's a Millette that was a <sup>18</sup> minerals of one variety in an analysis 19 constitutes a quantifiable level of detection"? 19 mining engineer, mining geologist here in <sup>20</sup> Alabama. And we were wondering if this Millette 20 A Right. <sup>21</sup> was related to him, and we found out he wasn't. And you agree with me that that's the 21 **Q** 22 **Q** I was gonna say, you know, I actually <sup>22</sup> same level of quantification in the J&J <sup>23</sup> specifications? 23 know the answer. 24 All right. I'd like to mark this <sup>24</sup> MS. O'DELL: Page 365 Page 363 <sup>1</sup> article as 31. Object to form. That's the number that's in -- in 2 A <sup>2</sup> THE COURT REPORTER: 3 30. It's gonna be 30. 3 most --4 MR. FROST: I've seen four a couple of times, but I 30. Sorry. I was looking at your <sup>5</sup> think five is -- is the one I see the most. <sup>6</sup> stickers to try to figure out. 6 MR. FROST: 7 (DEPOSITION EXHIBIT NUMBER 30 7 Q Okay. So you agree with me, anyway, 8 that the five, you know --8 WAS MARKED FOR IDENTIFICATION.) 9 MR. FROST: 9 A Right. 10 **Q** Have you ever heard the publication 10 O -- is in line with the limit of 11 Microscope? 11 quantifiable detection published in the 12 A I have. But I don't get it. 12 Microscope --13 O It's not one you subscribe to or read? 13 A Right. 14 A -- in fourth quarter of 1990? 14 O 15 O But -- and you at least do recognize 15 A Correct. 16 that it is a peer-reviewed publication that's out 16 **Q** Okay. Turn to page 41. <sup>17</sup> there? 17 A Okay. 18 A It's out there. 18 O And I'm not gonna belabor the point 19 **O** And, looking at page 457, do you see 19 because I think we talked about this pretty 20 that the name of this article is "A Standard TEM <sup>20</sup> significantly when we were looking at the Chinese <sup>21</sup> Procedure for Identification and Quantification 21 document. But the second paragraph after Testing <sup>22</sup> of Asbestiform Minerals in Talc"? Then it lists <sup>22</sup> Methodologies, halfway through, you write that, <sup>23</sup> "Finally" -- in the sentence that starts <sup>23</sup> Kremer, James Millette. <sup>24</sup> "Finally, an Imerys talc letter in 2013 states," 24 A Yeah. I'm trying to read the date on

Page 368 Page 366 <sup>1</sup> and it goes on. <sup>1</sup> Exhibit 31. And at the very bottom of this, "This, (DEPOSITION EXHIBIT NUMBER 31 <sup>3</sup> of course, suggests an asbestos content of less WAS MARKED FOR IDENTIFICATION.) 4 than .1 is acceptable, which is contrary to 4 MR. FROST: <sup>5</sup> Defendants' policy that its products be 5 O We're gonna turn gears a little bit 6 asbestos-free." 6 here. Just to make it easier, I've put a <sup>7</sup> collection of documents together in one binder so This is the same opinion you had as to 8 the Chinese test; right? Correct? 8 we don't have to worry about --No. No. This is different. I -- I 9 A Oh, wonderful. 10 O <sup>10</sup> was surprised to even see that because it looked -- running everything around. 11 like that suddenly we're gonna accept an asbestos 11 A Okay. 12 content up to .1. I mean, to me, it read very 12 **O** So looking at page 13 of your report, 13 strangely. I wasn't sure that it was even 13 running through page 21, this is the chart we <sup>14</sup> written the way it was meant to sound. 14 talked about, you know, earlier --15 A Right, right. 15 **Q** Oh. I see. 16 A 16 **Q** -- that has the various asbestos. Yeah. I mean, if you -- if you go back <sup>17</sup> and look at the document, it almost sounds like 17 A Right. 18 they're saying, "Well, you know, we've done the And you've looked at each of these 19 best we can, but if it's got .09 percent 19 documents, you testified, that relates to the <sup>20</sup> asbestos, well, that's below the .1 accepted <sup>20</sup> various entries on this chart? 21 standard, so" --21 A Yes. 22 22 **O** You know, it seemed like a very And, sitting here today, can you tell <sup>23</sup> me confidently that every one of the positive <sup>23</sup> peculiar statement. 24 test results on this chart, you know, relates to 24 **O** I see. So the -- it's -- the notation Page 367 Page 369 <sup>1</sup> here is more the peculiarness of the statement <sup>1</sup> asbestos that made its way to a final bottle of <sup>2</sup> and the document --<sup>2</sup> talcum powder sold by Johnson & Johnson? 3 **A** Well, if it's -- if it's accurate, 3 **A** No. 4 O 4 then -- then -- then it means that everything has Okay. <sup>5</sup> changed suddenly, that we're not -- we're not 5 A I think that there may be a mistake or 6 talc -- we're not asbestos-free and, in fact, 6 two on here. <sup>7</sup> Q <sup>7</sup> we're gonna accept it up to .1. Okay. And we're gonna walk through a You'd agree with me -- this is what we <sup>8</sup> couple. <sup>9</sup> covered before -- the test specification for 9 A Okay. <sup>10</sup> Johnson & Johnson's talc is utilizing the FDA 10 O I'm not gonna call out every mistake 11 J4-1, which is the XRD testing method, followed 11 because we'll be here -- you know, I'm not gonna 12 by PLM; correct? 12 look at every document and call out every 13 mistake, but I do want to go through a few. 13 A Correct. 14 MS. O'DELL: 14 MS. O'DELL: 15 Object to the form. Object to the form. 16 MR. FROST: <sup>16</sup> MR. FROST: And we've also seen that there's TEM 17 O So if we could look at what's been 18 testing requirement, too, in the J&J talc 18 marked as Tab 1 in the binder of 31. <sup>19</sup> specification; correct? 19 A Right. 20 **O** <sup>20</sup> MS. O'DELL: This relates to an 8-2-22 --21 Object to the form. 21 Well, first, if you look at page 18 of 22 A Correct. <sup>22</sup> your report, sort of halfway down, for the test <sup>23</sup> result for 8-22-1985. 23 MR. FROST:

24 A

Okay.

All right. I'm gonna mark this as

24 **Q** 

se 3:16-md-02738-MAS-RLS Document 3312 Robert 250	20-31 Filed 08/22/24 Page 95 of 130
Page 370	Page 372
<sup>1</sup> Q All right. Do you see that references	¹ that samples TC-700 were actually talc mined at
<sup>2</sup> document JNJMX68	<sup>2</sup> San Andreas, California; correct?
<sup>3</sup> A Yes.	<sup>3</sup> A It would seem to say that, yeah.
4 Q 13019?	4 Q Okay. All right. Looking back at your
5 A Right.	<sup>5</sup> report, the next entry down, 4-29-1986, it's on
6 Q And that's talking about McCrone	6 page 18.
7 project number ME-1862 and specifically samples	<sup>7</sup> A Okay. Tab 4?
8 WMI85-28 and WMI85-30?	8 Q Yeah. If you turn to Tab 4 here.
9 A Right.	9 You're ahead of me already.
Okay. If you'd turn to Tab 1 of the	10 A Okay.
11 exhibit blinder, you'll agree that this is the	But on the chart you identify J&J182 as
<sup>12</sup> corresponding document, and we see WMI85-28	the source document. Do you agree with me that
13 A Yes.	Tab 4 is Exhibit J&J182?
14 Q and 85-30 listed?	14 A Yes.
15 A Yes.	15 Q And, again, on your chart, you just
16 Q Okay. And, from this document, you	have talc samples, but here the talc samples
<sup>17</sup> can't tell where the samples WMI85-28 and	listed are WMI85-53, WMI85-55, and WMI85-57;
18 WMI85-30 were mined; correct?	18 correct?
19 MS. O'DELL:	
Object to the form.  A I don't think I can.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	I m fight. If you it fook out at 140
22 MR. FROST:	22 3. I'm sorry. Turn to page 5. I apologize. 23 Third page.
23 Q If you turn to 24 A I think that they actually the	<ul><li>Third page.</li><li>VIDEOGRAPHER:</li></ul>
<sup>24</sup> A I think that they actually the	
Page 371	Page 373
<sup>1</sup> sample numbers relate to the mill, not the mine.	Jack, did you put your mic on?
<sup>2</sup> Q Well, we'll why don't we turn to Tab	<sup>2</sup> MR. FROST:
<sup>3</sup> 2. This is a document Bates numbered JNJ65646.	Oh, did it fall off? No. I took it
<sup>4</sup> And I'll turn your attention to the second page.	4 off.
<sup>5</sup> A Okay.	<sup>5</sup> Q So look at the page that ends 890.
<sup>6</sup> Q Then we see here it says WMI85-28 and	6 A Okay.
<sup>7</sup> it describes as grade TC-7	<sup>7</sup> Q And if you'll look up there, we see
8 A Right. I'm aware of those two. I	8 WMI85-53. And, again, that's Grade TC-700?
<sup>9</sup> spotted them.	<sup>9</sup> A Right.
<sup>10</sup> Q Okay. The grade TC-700?	<sup>10</sup> Q 85-55, also Grade TC-700.
<sup>11</sup> A Right. I see that.	11 A Okay.
<sup>12</sup> Q So if we turn to the tab marked 3,	<sup>12</sup> Q And then the 85-57 is also grade
which is a document that starts with Bates Imerys	<sup>13</sup> TC-700.
14 013723, and if you can turn to the fourth page of	14 A Okay.
that. It's the one that's 13725.	Okay. And, you know, as we saw last
16 A Okay.	16 time, the Grade TC-700 comes from San Andreas,
<sup>17</sup> Q Under Production Location, the second	<sup>17</sup> California; correct?
<sup>18</sup> one, San Andreas, California.	<sup>18</sup> A Yeah. I'd have to go back and look,
<sup>19</sup> A Correct.	<sup>19</sup> but I I think it is.
<sup>20</sup> Q And then if you go over, it says	<sup>20</sup> Q Okay. You can look if you want, but I
<sup>21</sup> "Grade," and then it has "TC-700, light and	<sup>21</sup> take it you believe me on that one?
<sup>22</sup> dark."	22 A Okay.
102 4 7011	
<sup>23</sup> A Right.	<sup>23</sup> Q Okay. Look at page 17 of your report.

So, by this document, it's indicating

24 Q

Right in about the middle, there's a 10-10-1974

Page 376 Page 374 <sup>1</sup> entry on the -- on the chart. <sup>1</sup> that D-GI is an industrial product? It's not a <sup>2</sup> A <sup>2</sup> cosmetic talcum powder? I see it. Okay. And it accounts for J&J-74 as 3 **A** Right. 3 **O** 4 Q All right. If you turn to page 15. <sup>4</sup> the source document. Hang on. What was the date again? <sup>5</sup> Oh, sorry. 14. About halfway down 14, there's a 5 A 6 document or there's an entry on the chart, 6 **Q** 10-10-1974. It's about the middle of <sup>7</sup> 7-7-1971. And the what was tested column shows <sup>7</sup> page 17. 8 that it was talc product 344-L? 8 A Right. Right. I'm looking at the 9 A other one. Right. 10 10 O Okay. If you look at Tab 8, there's a Huh. Page 17? 11 document JNJAZ55-6089 that appears to be -- you Yeah. Here. I've highlighted it on 11 O 12 this one. I'll just let you look. Looks like 12 know, it's the July 7, '71, letter that talks <sup>13</sup> the second entry on page 17. <sup>13</sup> about 344-L testing. Do you agree? 14 A Okay. I've got it. Sure. 14 MS. O'DELL: 15 O And the source document for that entry Jack, can you give us a moment? <sup>16</sup> is J&J-74. 16 MR. FROST: <sup>17</sup> A 17 Right. Sure. Okay. If you look at Tab 8, do you 18 MS. O'DELL: <sup>19</sup> agree with me that that's the source document? Because we have it as a different --<sup>20</sup> MS. O'DELL: 20 MR. FROST: Yeah. I was gonna say, you have the --Tab 8? 22 that's fine. If you can find the one you have, <sup>22</sup> MR. FROST: 23 that's great. Tab 8, yes. Oh, sorry. Tab 6. Looked 24 MS. O'DELL: <sup>24</sup> like an 8 as I was glancing at it. Page 375 Page 377 1 O Yeah. Just -- and it may be the same Tab 6. 2 A <sup>2</sup> document, but we identified it differently, so Okay. 3 **Q** And if you look at the highlighted <sup>3</sup> just give us just a minute --<sup>4</sup> portion of that document, which is highlighted on 4 MR. FROST: <sup>5</sup> the original, it notes that the sample is DG --Yeah. That's fine. 6 D-GI; correct? 6 MS. O'DELL: 7 A Yes. -- to check the Bates number. 8 **O** In which they found the fibrous 8 MR. FROST: <sup>9</sup> asbestiform materials. Of course, the sticker's over the Bates If you look at Tab 7, this is a 10 number; right? <sup>11</sup> document that's Bates stamped JNJMX682659. 11 MS. O'DELL: 12 A Never helpful. Okay. 13 **O** Third paragraph down, it states, "The 13 I believe that to be the same one. 14 samples represented both the industrial minerals 14 MR. FROST: <sup>15</sup> produced at the Gassetts," and it says "GI" in 15 Okay. <sup>16</sup> parentheses. 16 MS. O'DELL: 17 A 17 Right. Thank you. 18 **Q** Okay. And then if you skip down --18 MR. FROST: 19 A Yeah. I, incidentally, I picked this Okay. And this is a report from 20 one up. <sup>20</sup> Colorado Schools of Mines regarding this sample 21 **Q** This is the one you picked up? <sup>21</sup> 344-L? I -- well, it's one of the ones I 22 A 22 A <sup>23</sup> picked up. 23 **Q** Are you aware that the Colorado School <sup>24</sup> of Mines issued a subsequent report on retesting

All right. Do you agree with me, then,

24 **Q** 

Page 380 Page 378 <sup>1</sup> of these same samples? <sup>1</sup> contamination from the standard asbestos <sup>2</sup> A <sup>2</sup> samples." No. 3 **Q** Turn to Tab 9. 3 **A** Right. 4 Q 4 A I say I'm not. I -- I don't So, based on this, obviously, you know, <sup>5</sup> remember -- I don't remember seeing it. If it --<sup>5</sup> we can't determine whether or not the sample <sup>6</sup> if it contradicted this one, then I would have 6 344-L on the chart, you know, is an actual <sup>7</sup> finding of asbestos in the talcum powder. Would <sup>7</sup> likely removed it from the table. So --8 you -- would you agree with that statement? 8 O Okay. 9 MS. O'DELL: 9 A -- I either don't remember it or didn't 10 10 see it. Object to form. 11 **O** 11 A Hang on. I'm reading that third Okay. That's fair. 12 Go on and turn to Tab 9. It's a paragraph. <sup>13</sup> document Bates-stamped JNJAZ55-3828. 13 MR. FROST: 14 A Where was that in the table? 14 O Sure. <sup>15</sup> Q This particular document? 15 A Yeah. 16 A Yeah. Are you referring to an entry in 16 O Okay. <sup>17</sup> A <sup>17</sup> the table? Okay. It's not. I'm gonna -- this document 18 **Q** Page 15, the second notation, 9-6-1972, <sup>19</sup> refers -- this is the retest that I was talking <sup>19</sup> J&J-31. 20 A <sup>20</sup> about from Colorado School of Mines. Right. 21 A Oh, okay. Sure. 21 **O** And the source document is noted as 22 MS. O'DELL: <sup>22</sup> J&J -- yeah, J&J-31. 23 A And if you haven't seen the document, Right. 24 **O** Turn to Tab 12. You'll agree with me <sup>24</sup> take your time --Page 379 Page 381 <sup>1</sup> that appears to be the source document, that <sup>1</sup> MR. FROST: <sup>2</sup> J&J-31? 2 **O** I was gonna say take your time to read <sup>3</sup> it. I believe it's pretty short. 3 **A** Right. 4 Q If you turn to page 4 of 7. 4 A Yeah. 5 **Q** Actually, very short. 5 A Okay. So the sample numbers that have 6 A There they go again, "within our limits 6 O <sup>7</sup> of detectability." <sup>7</sup> chrysotile findings you agree are 133, 134, 137, 8 138, and then, if you turn to the next page, 84? 8 Right. Okay. 9 Q You're reading from the middle of 9 A Read those numbers again. <sup>10</sup> paragraph 1? 10 O Sure. 133, 134 --11 A I'm reading --11 A Okay. 12 **Q** The numbered paragraph 1? 12 **O** -- then 137 and 138 and 84. I'm reading the last sentence of the 13 A 13 A Right. <sup>14</sup> second full paragraph. Turn back -- or turn to Tab 11, which 15 **Q** <sup>15</sup> is a document dated January 7th, 1976. You can Yeah. <sup>16</sup> read the letter. But, effectively, this is a 16 So, before that, it states "Subsequent 17 x-ray work" --17 retest of some of the various samples by 18 A Right. <sup>18</sup> Dr. Lewin; correct? -- "on the 6-month product samples on 19 O 19 A Correct. <sup>20</sup> the 344-L product sample shows no definite 20 O If you turn to -- one, two, three --<sup>21</sup> indications of any asbestos-type minerals within 21 the fourth page. So if you see -- if you look at <sup>22</sup> our limits of detectability." <sup>22</sup> 84 under chrysotile, there's a question mark. 23 A <sup>23</sup> Then if you look at 133, 134, 137 and 138 under Right. <sup>24</sup> chrysotile, it's now marked "nondetect." 24 O "The trace amounts I saw were evidently

Philip 08/22/24 Page 382 Page 384 1 A Right. I see that. Uh-huh. 2 O <sup>2</sup> can't tell me that every single one of these --So, again, just like the other

<sup>3</sup> document, based on the retesting, you know, we

<sup>4</sup> can't say one way or the other whether there was

<sup>5</sup> actually asbestos in that sample; correct?

6 MS. O'DELL:

Object to the form.

8 A Correct.

9 MR. FROST:

10 O Now, I know we've said this lots of

11 times, and I apologize, but not a doctor, not a

12 toxicologist; correct?

13 A Correct.

14 O And, because of that, you can't testify

<sup>15</sup> to a reasonable degree of scientific certainty

<sup>16</sup> that any individual container of talcum powder

<sup>17</sup> has sufficient asbestos in it to cause ovarian

<sup>18</sup> cancer; correct?

19 A Correct.

<sup>20</sup> MS. O'DELL:

Object to the form.

22 MR. FROST:

23 **O** Okay. And same thing. You can't

24 testify that any particular container of talcum

<sup>1</sup> me before, you know, sitting here today, you

<sup>3</sup> you know, any one of the ones that are left

<sup>4</sup> would, you know, also be indicative of something

<sup>5</sup> that actually ended up in talcum powder; correct?

6 MS. O'DELL:

Object to the form.

Well, it depends on what's being 8 A

analyzed. If some of it is the finished product,

10 then it's the finished product.

<sup>11</sup> MR. FROST:

12 **Q** Okay.

13 A If not, then, you know, it depends on

<sup>14</sup> where the sample was collected. If it was

<sup>15</sup> collected at the mine, then that's one thing. If

<sup>16</sup> it was collected coming out of the flotation

<sup>17</sup> circuit, well, you know, maybe it did get --

<sup>18</sup> probably it got in.

19 **Q** Okay.

20 A I'm not in the business of throwing --

<sup>21</sup> throwing good product away.

And you also -- you can't tell me,

23 sitting here, that there aren't other documents

24 that may call into question or contradict some of

Page 383

<sup>1</sup> powder has sufficient asbestos in it to cause

<sup>2</sup> mesothelioma; correct?

<sup>3</sup> MS. O'DELL:

4 Object to the form.

5 A That's correct. You know, you -- the

6 term "sufficient" is -- is an interesting one in

<sup>7</sup> your question. I don't know that anybody on

<sup>8</sup> earth knows that answer.

9 MR. FROST:

<sup>10</sup> Q Okay.

11 A Can -- can say that.

12 **Q** But that's certainly not an area

13 that -- it's not an area you've studied --

14 A Right.

<sup>15</sup> O -- or are qualified in.

16 And, again, I think I've now pointed

out five, I believe --

18 A Yes.

-- examples of, you know, sort of --

<sup>20</sup> I'll call them inaccuracies, you know, but --

21 A Glitches.

22 **O** -- notations on the chart, you know,

23 that we can't say whether or not are actually

<sup>24</sup> asbestos in the product. And I believe you told

Page 385 <sup>1</sup> the other testing results here; correct?

<sup>2</sup> MS. O'DELL:

Object.

<sup>4</sup> MR. FROST:

The -- the testing results listed here

<sup>6</sup> were based on, you know, your best efforts and

<sup>7</sup> reviewing the documents you had available at the

8 time; correct?

MS. O'DELL:

10 Objection. Object to the form.

11 A Yeah. The table is my best effort at

putting together information from the documents

13 that I had. That -- that statement's accurate.

14 MR. FROST:

15 O Okay. Now, have you reviewed

<sup>16</sup> Dr. Longo's reports that have been issued in this

17 case?

18 A I'm not sure I've seen all of them.

19 O You've reviewed some of the Longo

<sup>20</sup> reports, at least?

21 A Yes.

22 **O** Okay. And are you -- are you relying

23 on the Longo test results as part of the basis

<sup>24</sup> for your opinions in these cases?

Panein 238	Y@k	i, Ph.D.
Page 386		Page 388
A Not really. I mentioned him a couple	1	subject.
of times. But I got I got his report, his	2	VIDEOGRAPHER:
I mean, the great big huge report just a few	3	Going off the record. The time is 4:13
<sup>4</sup> days ago.	4	p.m.
<sup>5</sup> Q Oh, okay. So it's	5	(OFF THE RECORD.)
6 A I'd seen the introductory materials and	6	VIDEOGRAPHER:
7 some of the earlier reports he had.	7	We're back on the record. The time is
8 Q But you're not specifically relying on	8	4:40 p.m.
<sup>9</sup> Longo's testing and his testing methodologies and	9	MR. FROST:
things like that for the basis of your opinions	10	Q Okay. I believe we were turning to
in this case?	11	page 22 of your report. No. Page 23.
<sup>2</sup> MS. O'DELL:	12	Did your report get lost somewhere?
Object to the form.	13	A Yeah. I'm looking for yours with the
4 A It is certainly part of the big	14	tabs on it.
<sup>5</sup> picture.	15	Q Oh. That's the binder on the bottom.
6 MR. FROST:	16	MS. O'DELL:
You're not here to offer any opinions	17	Do you need it?
8 that his testing methodologies were inadequate or	18	MR. FROST:
9 that, you know, his preparation procedures and	19	We're gonna turn to it next, so it's a
things like that, they that's that's not	20	good thing you have it.
<sup>1</sup> part of the opinions you're offering in this	21	Q Okay. So you see the 5-25-1972
<sup>2</sup> case, are they?	22	notation under the chart regarding fibrous talc?
<sup>3</sup> A No.	23	And it notes the source document is JNJ238826,
<sup>4</sup> Q Okay.	24	248023?
4 Q Okay.  Page 387	24	248023? Page 389
•		
Page 387		Page 389
Page 387  A I did read I did read his methods.	1	Page 389 A Right.
Page 387  A I did read I did read his methods.  They seem to be up to snuff.  Okay. You didn't do any, for example,	1 2	Page 389  A Right.  Q Turn to Tab 13.
Page 387  A I did read I did read his methods.  They seem to be up to snuff.	1 2 3 4	Page 389  A Right.  Q Turn to Tab 13.  MS. O'DELL:
Page 387  A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example,  calculations of BSAED dispersion patterns	1 2 3 4	Page 389  A Right.  Q Turn to Tab 13.  MS. O'DELL: You said 5-25-1972?
Page 387  A I did read I did read his methods.  They seem to be up to snuff.  Okay. You didn't do any, for example,  calculations of BSAED dispersion patterns  No.	1 2 3 4 5	Page 389  A Right.  Q Turn to Tab 13.  MS. O'DELL:  You said 5-25-1972?  MR. FROST:
Page 387  A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example,  calculations of BSAED dispersion patterns  A No.  Q or you didn't try to verify any of	1 2 3 4 5	Page 389  A Right. Q Turn to Tab 13.  MS. O'DELL: You said 5-25-1972?  MR. FROST: Yes. It's on page 23 of his report.
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Page 387  A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example,  calculations of BSAED dispersion patterns  A No.  Q or you didn't try to verify any of  his test results?  A No. No, no, no. I'm not sure how I  would have.  Q That's that's not your area of  expertise; correct?  A Nor do I have the equipment.  Q Well, that's a fair point, too.  A Yeah.  Q Turning to page 20  Are these chronological? They are.  Okay.  MS. O'DELL:  Hey, Jack. We've been going a  hundred hour and 15 minutes. Can we take a	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 389  A Right. Q Turn to Tab 13.  MS. O'DELL: You said 5-25-1972?  MR. FROST: Yes. It's on page 23 of his report.  MS. O'DELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous talc table.  MR. FROST: Yeah, the fibrous talc table.  MS. O'DELL: Okay. All right.  MR. FROST: Q Okay. Do you agree with me these are the two source documents?  A I think so. Q And they're both referring to sample FD-14?
Page 387  A I did read I did read his methods.  They seem to be up to snuff.  Q Okay. You didn't do any, for example,  calculations of BSAED dispersion patterns  A No.  Q or you didn't try to verify any of  his test results?  A No. No, no, no. I'm not sure how I  would have.  Q That's that's not your area of  expertise; correct?  A Nor do I have the equipment.  Q Well, that's a fair point, too.  A Yeah.  Q Turning to page 20  Are these chronological? They are.  Okay.  MS. O'DELL:  Hey, Jack. We've been going a  hundred hour and 15 minutes. Can we take a  short break?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 389  A Right. Q Turn to Tab 13.  MS. O'DELL: You said 5-25-1972?  MR. FROST: Yes. It's on page 23 of his report.  MS. O'DELL: Okay. So you're not talking about the asbestos table. You're talking about the fibrous talc table.  MR. FROST: Yeah, the fibrous talc table.  MS. O'DELL: Okay. All right.  MR. FROST: Q Okay. Do you agree with me these are the two source documents?  A I think so. Q And they're both referring to sample FD-14?  A I think that they are. Sure.
	Page 386  A Not really. I mentioned him a couple of times. But I got I got his report, his I mean, the great big huge report just a few days ago.  Q Oh, okay. So it's A I'd seen the introductory materials and some of the earlier reports he had.  But you're not specifically relying on Longo's testing and his testing methodologies and things like that for the basis of your opinions in this case?  MS. O'DELL:  Object to the form.  A It is certainly part of the big picture.  MR. FROST:  Q You're not here to offer any opinions that his testing methodologies were inadequate or that, you know, his preparation procedures and things like that, they that's that's not part of the opinions you're offering in this case, are they?	Page 386  1 A Not really. I mentioned him a couple 2 of times. But I got I got his report, his 3 I mean, the great big huge report just a few 4 days ago. 5 Q Oh, okay. So it's 6 A I'd seen the introductory materials and 7 some of the earlier reports he had. 8 Q But you're not specifically relying on 9 Longo's testing and his testing methodologies and 0 things like that for the basis of your opinions 1 in this case? 2 MS. O'DELL: 3 Object to the form. 4 A It is certainly part of the big 5 picture. 6 MR. FROST: 7 Q You're not here to offer any opinions 8 that his testing methodologies were inadequate or 9 that, you know, his preparation procedures and 0 things like that, they that's that's not 1 part of the opinions you're offering in this 2 case, are they?

Page 392 1 Are both documents behind the same tab? <sup>1</sup> Drs. Gamble and Gibbs --2 **O** 2 A They are. There's a blue page Correct. <sup>3</sup> separating the two. 3 O -- entitled "An evaluation of the risks Oh, okay. Thank you. Gotcha. Okay. 4 of lung cancer and mesothelioma from exposure to And you'll also agree with me that <sup>5</sup> amphibole cleavage fragments"? 5 **O** <sup>6</sup> they're talking -- the FD-14 seems to have been Correct. <sup>7</sup> tested by a Dr. W. Smith at Fairleigh Dickinson 7 Q You can feel free to read the paper, 8 but I'm gonna direct your attention to page 23 of 8 University? 9 33. 9 A Correct. 10 **O** 10 A Okay. Turn to --Oh, great. Okay. All right. Wait a minute. 11 Q Okay. Second column, looks like the 11 A 12 second paragraph down, the paragraph starts, 12 MS. O'DELL: 13 Dr. Smith? Is that what you were --13 "Samples used in experimental studies." 14 A Page 23 of 33? <sup>14</sup> MR. FROST: Yep. On the second column. <sup>15</sup> Q Dr. W. Smith, Fairleigh Dickinson 15 O Second column being the right-hand <sup>16</sup> University. 16 A 17 Both of these are Johnson & Johnson <sup>17</sup> column? <sup>18</sup> documents, but they're talking about the 18 **Q** Yeah. Then it starts right there. It <sup>19</sup> Dr. W. Smith testing of the tremolite talc, 19 says "Samples." 20 A Okay. <sup>20</sup> FD-14. 21 About halfway down in that paragraph --Do you agree with that statement? 21 **Q** 22 A 22 A Okay. I was looking for Smith's name. -- the sentence reads, "On the other 23 I remember seeing Rolle and Goudie and --23 **O** <sup>24</sup> hand, there are several studies of tremolitic 24 **O** If you look at the first document, the Page 391 Page 393 1 238826 --1 talc samples from the Gouverneur mine in New York <sup>2</sup> State." And the second one listed is FD-14 used 2 A Right. 3 O -- at the top, it says, "Subject, <sup>3</sup> by Dr. Smith, 1979. Is that correct? <sup>4</sup> Characterization of Tremolite Talc, FD-14, 4 MS. O'DELL: 5 Dr. W. Smith --That's what it states. 6 A Oh. Oh, yeah. 6 MR. FROST: 7 Q Or did I -- did I read that correctly? -- Fairleigh Dickinson University. 7 **Q** Right. I've got him. Yep. Yep. Yep. I think you did. 8 A 8 A <sup>9</sup> Sure. 9 Q Okay. And, by this, it indicates that All right. Turn to Tab 14. 10 the tremolitic talc tested by Dr. Smith that's 10 **Q** 11 A 11 FD-14 is actually a Gouverneur mine sample; Okay. 12 **O** It's a letter dated March 15th, 1972, 12 correct? <sup>13</sup> Bates stamped JNJ346879. 13 MS. O'DELL: 14 A 14 Okay. Object to the form. Unless there's a peculiar duplication 15 O And, again, it's from -- you know, 15 A 16 second sentence down says, "As you may remember 16 of numbers. 17 from my brief conversation with you, we are 17 MR. FROST: <sup>18</sup> presently analyzing a talc used by 18 **Q** It certainly seems to indicate that; 19 correct? 19 Dr. W. E. Smith in his animal testing. Could you 20 please have the EM work done on this talc labeled 20 A It would suggest that. 21 FD-14?" 21 O Okay. If you turn to page 25 of your 22 A 22 report, again on the fiber -- fibrous talc chart, <sup>23</sup> an entry for 7-29-1975. And it indicates Okay. If you turn to Tab number 15,

24 this is a paper published on October 22, 2007, by

<sup>24</sup> document JNJL6127053.

Page 101 of 130 Page 396 Page 394 1 Do you see where I am? <sup>1</sup> still fibrous talc. <sup>2</sup> A Yeah, I've got it. 2 **Q** Okay. But that's different than the Okay. And if you turn to Tab 16 in the <sup>3</sup> talc that was sourced for Johnson & Johnson 3 **Q** <sup>4</sup> binder that's Exhibit 31. 4 talcum powder; correct? 5 A Okay. 5 A It may --You agree with me that this is the 6 MS. O'DELL: 6 **Q** <sup>7</sup> source document for the entry on the chart; Object to the form. 8 correct? 8 A It may or may not be. I mean, if they're coming from --9 A I believe it's the right number. 10 Q Okay. Do you see up in the upper They list the mines, and they're the <sup>11</sup> left-hand corner it says "W. Minerals, Ludlow 11 same mines that were producing the cosmetic talc, <sup>12</sup> 36"? 12 and there's no reason to think that -- that even 13 A Yes. 13 though we've got lots of analyses that show 14 **O** Okay. And if you turn to Tab 17, which 14 fibrous talc in cosmetic talc that there <sup>15</sup> shouldn't be any fibrous talc in industrial talc. <sup>15</sup> is a document Bates-stamped Imerys 013723. 16 It... 16 A Uh-huh. <sup>17</sup> Q And if you turn to the second page, 17 MR. FROST: 18 fourth entry down, it says "Ludlow, Vermont." Okay. But, based on this, this 19 A 19 certainly isn't evidence that there was fibrous Got it. 20 talc that ended up in a bottle of Johnson's -- in 20 **Q** Okay. And it notes Grade 36 here. <sup>21</sup> A 21 Johnson & Johnson's talcum powder; correct? I see Grade 36. 22 **O** Okay. And if you look down --22 MS. O'DELL: 23 So the production location of this is 23 Object to the form. <sup>24</sup> Ludlow, Vermont; correct? And then it says 24 A That way, no. Page 395 Page 397 <sup>1</sup> "Grade 36." <sup>1</sup> MR. FROST: 2 A Okay. And, again, you know, we've Correct. 3 **Q** Okay. And if you look on the next <sup>3</sup> already covered this before, but you can't tell <sup>4</sup> page, that is different than the production <sup>4</sup> me to a reasonable degree of scientific certainty <sup>5</sup> location being Windsor, Vermont -- right? --<sup>5</sup> that any individual container of talcum powder 6 which has the Grade 65 talc, which we know is the 6 may have contained a sufficient number of -- or a <sup>7</sup> sufficient amount of fibrous talc to cause any <sup>7</sup> cosmetic talc? 8 A 8 human disease; correct? Okav. 9 **Q** And we know that the cosmetic talc came MS. O'DELL: 10 10 from the Windsor, Vermont, mill; correct? Object to the form. 11 A It should have, yes. 11 A I've never seen a paper that said how 12 **Q** All right. And that's separate, much you needed to cause any kind of a problem. 13 according to this document, from the Ludlow, 13 MR. FROST: 14 Vermont, mill; correct? 14 **Q** Okay. And that's outside of your area <sup>15</sup> of expertise, anyway. <sup>15</sup> MS. O'DELL: 16 16 A Object to the form. Correct. 17 **Q** 17 A Yes. Okay. Now, again, you know, you've also noted on here, we've seen at various points 18 MR. FROST: 19 O 19 nickel, chromium, cobalt and arsenic, I believe, Okay. 20 A I think that the point of all this is 20 as well. And you'd agree with me that not all of 21 that the -- the mill feed at Ludlow had fibrous 21 the entries on the charts for these various

Exactly.

22 talc in it.

23 **Q** 

Whether it was cosmetic or not, it was

<sup>23</sup> powder; correct?

<sup>22</sup> different chemicals are, in fact, finished talcum

- Object to the form.
- <sup>2</sup> A Some are. Some are not.
- <sup>3</sup> MR. FROST:
- <sup>4</sup> Q Okay. And a lot of them, you know, are
- <sup>5</sup> ore samples, things of that nature?
- 6 MS. O'DELL:
- Object to the form. Object to the
- 8 form, "a lot." What does that mean?
- <sup>9</sup> MR. FROST:
- 10 Q Many of them? You know, a certain
- 11 number of them come from ore samples; correct?
- 12 MS. O'DELL:
- Object to the form.
- <sup>14</sup> A I would say that -- that ore is
- <sup>15</sup> converted to finished product, and there's no
- <sup>16</sup> indication that there's been any attempt to get
- <sup>17</sup> those metals out. So that's my answer.
- 18 MR. FROST:
- <sup>19</sup> Q You'd agreed with me, if done properly,
- <sup>20</sup> beneficiation could be used to lower the amounts
- 21 of heavy metals that may appear in a finished
- <sup>22</sup> product; correct?
- 23 MS. O'DELL:
- Object to the form.

<sup>1</sup> any Vermont talc with any other Vermont talc is

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- <sup>2</sup> gonna do nothing to lower potential heavy metal
- <sup>3</sup> values found in the finished product?
- <sup>4</sup> A It depends on whether you're including
- <sup>5</sup> arsenic in there as a -- as a heavy metal. I
- 6 don't -- I don't include arsenic as a heavy
- <sup>7</sup> metal. But if you want to include it in there,
- 8 blending can reduce the arsenic level.
- <sup>9</sup> Q Okay. And arsenic's the only one that
- 10 you believe that blending can reduce?
- 11 A Haven't seen any indication that
- 12 blending with anything else would -- would reduce
- 13 those numbers.
- 14 Q You also believe that there's no way to
- use beneficiation to, say, remove chlorite from
- 16 talc?
- <sup>17</sup> A I think that that could probably be
- <sup>18</sup> done. And, in fact, my guess is that some of
- 19 that is done. I think it's tough, because in
- <sup>20</sup> a -- in a flotation plant, those two minerals
- 21 tend to respond similarly. And, so, when you --
- <sup>22</sup> when you -- they were using a methyl isobutyl
- 23 something or another in one of the plants. That
- <sup>24</sup> frothing agent is excellent for talc, but I think

- <sup>1</sup> A I don't think that there's been a
- <sup>2</sup> single study that's indicated that.
- <sup>3</sup> MR. FROST:
- 4 Q And would you agree with me that
- <sup>5</sup> blending is a technique that can be used to lower
- <sup>6</sup> total heavy metal counts by using ores from
- <sup>7</sup> different areas that have different
- 8 concentrations of heavy metals?
- 9 MS. O'DELL:
- Object to the form.
- 11 A If I was asked to produce a blended
- 12 talc that would lower the heavy metals, it would
- 13 have to be blending Vermont talc with a
- <sup>14</sup> non-Vermont source.
- Say we know that the metal numbers are
- 16 low in Chinese talc. So if you wanted to have 50
- <sup>17</sup> percent Chinese talc, 50 percent Ludlow talc,
- 18 then your total metals are gonna go down.
- <sup>19</sup> O Okay.
- <sup>20</sup> A So blending can do that. But there's
- 21 no indication that anything like that was ever
- <sup>22</sup> done other than blending Vermont talc with
- <sup>23</sup> Vermont talc.
- 24 Q And your opinion is that blending of

- <sup>1</sup> it's also pretty good for chlorite, too. I think
- <sup>2</sup> that by playing around, you might come up with a
- <sup>3</sup> frothing agent or an agent that might help pull
- <sup>4</sup> chlorite out if you wanted to add a separate
- <sup>5</sup> circuit.
- 6 Q Okay.
- <sup>7</sup> A But I don't know that that's true.
- 8 This is -- this is -- based on what I've read and
- <sup>9</sup> looked at, you might be able to do that. You'd
- 10 have to try. It'd have to be bench -- bench
- <sup>11</sup> scale testing.
- 12 Q Okay. So you'd agree with me that,
- 13 hypothetically, beneficiation, done properly,
- 14 could remove the chlorite which would drop the
- 15 levels of heavy metals contained in the talc?
- 13 levels of fleavy flictals contained in the
- 16 MS. O'DELL:
- Object to the form.
- <sup>18</sup> A I would say that it might.
- 19 MR. FROST:
- <sup>20</sup> Q And, again, if I were to ask you --
- And I'll ask it as one question, which
- <sup>22</sup> I know is compound, so there'll be an objection.
  - But if I were to ask you with respect
- 24 to arsenic, cobalt, chromium, nickel --

Page 404 Page 402 1 I believe that's all of them. 1 A It's -- the -- the technique used by <sup>2</sup> A <sup>2</sup> Johnson & Johnson would not distinguish between Yep. That's it. 3 **Q** Okay. You couldn't tell me to any 3 the two, and their -- their specs don't try to <sup>4</sup> degree of scientific certainty that any <sup>4</sup> distinguish between the two. <sup>5</sup> individual container would contain enough of They have a -- they have a report --<sup>6</sup> these particular heavy metals to cause human 6 it's actually quite -- quite interesting -- where <sup>7</sup> they have tried to determine how much of each was <sup>7</sup> disease; correct? 8 present. And I didn't reference it, but I've got 8 MS. O'DELL: <sup>9</sup> it somewhere. But there was an attempt probably Object to the form. 10 back in the late 1970s to look at this. 10 A I'm not an expert in human disease. 11 **Q** 11 MR. FROST: You'd agree with me, based on the 12 **O** 12 sampling results that you rely on for your And are you also aware that chromium is 13 a fairly common --13 report, you can't tell whether or not it's cobalt 14 14 3 versus -- I'm sorry --Well, strike that. 15 A 15 Are you aware there's two different Chromium. 16 types of chromium? Well, there's more than, but 16 **Q** -- chromium 3 versus chromium 6 in the <sup>17</sup> there are two different types of chromium that talc; correct? <sup>18</sup> are generally recognized to be associated with 18 A They don't report it that way. 19 rocks? 19 MS. O'DELL: 20 A 20 Object to the form. Right. Yes. And that's chromium 3 and chromium 6? 21 **Q** 21 A They report total chromium. 22 A 22 MR. FROST: Correct. 23 **O** Okay. And you're also aware that 23 **O** Okay. 24 chromium 6 is the one that causes concern: 24 A Pardon me. I'm not even sure they're Page 403 Page 405 <sup>1</sup> reporting total chromium because that -- that is <sup>1</sup> correct? <sup>2</sup> based on what extraction technique they used. <sup>2</sup> MS. O'DELL: 3 Object to the form. Okay. I'm gonna switch gears and turn Yes. Plus 6 chromium is -- is, you <sup>4</sup> to Exhibit 4, which are your invoices. And one 4 A <sup>5</sup> know, considered to be, you know, very bad. <sup>5</sup> thing I noticed as I was going through, 6 MR. FROST: <sup>6</sup> variously, invoices have notations with meeting 7 Q Okay. And, in fact, chromium 3 is an <sup>7</sup> with, like, for example, invoice number 5, 8 essential element to human bodies and everything 8 meeting with potential expert witnesses, Brian <sup>9</sup> else. <sup>9</sup> Fowler and Don Burns. <sup>10</sup> MS. O'DELL: 10 A Right. 11 Q 11 Object to the form. Who are Brian Fowler and Don Burns? 12 A 12 MR. FROST: Don Burns is the chief geologist for 13 Omnia in Vermont, and he and I are friends. 13 O It's something human bodies need to 14 function. 14 And Brian Fowler, remember the citation 15 A <sup>15</sup> of Chidester, Billings, and Cady? Uh-huh. Yes. 16 **Q** And you're also aware that cobalt 3 is 16 **Q** Uh-huh. 17 A <sup>17</sup> a common element found in rock. Brian Fowler's father-in-law was Marlin 18 A Cobalt 3? <sup>18</sup> Billings, the Billings in that report. And he is 19 **Q** Sorry. Chromium 3. <sup>19</sup> a consulting geologist that lives in 20 A New Hampshire, right across the line, and he owns Yes. 21 **Q** Okay. And you'll agree with me that 21 or owned a company called North American 22 the chart and the testing results don't designate <sup>22</sup> Preserve -- Reserve that did an awful lot of work <sup>23</sup> whether or not it's chromium 3 versus chromium 6 <sup>23</sup> up there. And -- but, unfortunately, not much of

24 they're finding in the talc samples; correct?

24 it was related to talc mining, and I didn't know

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<sup>1</sup> that.

- 2 And, so, at one point, since I was up
- <sup>3</sup> there, I said, "I'm gonna look up Brian." Brian
- <sup>4</sup> Fowler had worked down here in Alabama. That's
- <sup>5</sup> how I knew him.
- So I looked him up, and he said, you
- <sup>7</sup> know, "I don't know enough about it to be of any
- 8 help."
- 9 **Q** Okay. So that was the nature of your
- 10 conversation with Brian Fowler is just --
- 11 A Yeah, sure.
- -- I'm working on this; would you be 12 **Q**
- 13 interested; and he said, "Unfortunately, I'm not
- 14 qualified"?
- 15 A Same with Don burns, and his answer was
- <sup>16</sup> "Hell, no."
- 17 **Q** I was gonna say. So who's Don Burns?
- 18 A He's the chief geologist for Omnia.
- 19 **Q** Okay.
- 20 A Their account producer there.
- And did Mr. Burns express to you why he 21 **O**
- 22 was not interested in --
- 23 A He's retiring, didn't want to be
- <sup>24</sup> involved. In fact, he's probably retired now.

1 Q Okay. And I take it that paper had

- <sup>2</sup> nothing to do with tale, this litigation.
- Absolutely. But he gave me something. 3 A
- It was more of an interesting piece? 4 Q
- 5 A Yeah. Very interesting.
- Well, sir, thank you very much. That's 6 Q
- <sup>7</sup> all the questions I have for right now. I'm
- 8 gonna yield my time at this point to my colleague
- <sup>9</sup> from Imerys, but I do reserve the right to come
- <sup>10</sup> back and ask a few questions if I find anything
- 11 in my notes.
- 12 A Sure.
- 13 Can I add something? I misspoke
- <sup>14</sup> earlier about Longo.
- 15 O Okay.
- 16 A I had several copies of reports that he
- <sup>17</sup> did, and I -- I actually had, I want to say,
- <sup>18</sup> about 35 pages of that supplemental report that
- 19 summarized, you know, the percent samples that --
- <sup>20</sup> that had fibrous talc. And I did rely on that.
- 21 But I didn't have the full 2,000 pages in front
- <sup>22</sup> of me.
- 23 **Q** Okay.
- 24 A So I did -- I did use him some, but not

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- <sup>1</sup> But he was, you know, looking at retirement a few
- <sup>2</sup> months out. He said -- you know, he's gonna live
- <sup>3</sup> in Proctorsville, Vermont, for the rest of his
- 4 life, and he said he just didn't want to be
- <sup>5</sup> involved. Okay.
- Okay. And did either Mr. Fowler or 6 O
- <sup>7</sup> Mr. Burns provide you with any information that
- 8 you relied on --
- 9 A None.
- 10 O -- in drafting your opinions in this
- 11 case?
- 12 A None whatsoever.
- 13 **Q** And did they provide you any documents
- 14 or other information?
- 15 A None. Well, Brian Fowler gave me a
- 16 document related to --
- 17 You know, New Hampshire's symbol is the
- 18 old man in the mountain rock face.
- 19 **Q** Uh-huh.
- 20 A Well, it collapsed about ten years ago.
- 21 It's gone. And Brian Fowler's company did the
- 22 study that showed why the rock face collapsed.
- 23 And he gave me the paper about that. And that's
- 24 the only thing he gave me.

- <sup>1</sup> in terms of trying to analyze what he did.
- Okay. So is it fair to say your
- <sup>3</sup> reliance on the Longo testing is with respect to

- <sup>4</sup> the percentage of bottles that he found either
- <sup>5</sup> asbestiform -- well, what he characterized as
- <sup>6</sup> asbestiform minerals or fibrous talc?
- It went through his methodology, which
- <sup>8</sup> I thought was pretty interesting since he
- <sup>9</sup> actually began to apply numbers to some of the
- <sup>10</sup> data.
- 11 Q Uh-huh.
- 12 A Which was, I thought, an interesting
- <sup>13</sup> thing.
- 14 O Okay. But I think we established
- <sup>15</sup> before you didn't do anything to check the
- <sup>16</sup> work --
- <sup>17</sup> A No, no.
- 18 O -- or to analyze it.
- 19 A But I think I kind of implied I didn't
- <sup>20</sup> really look at it very much. But I -- I looked
- 21 at the first half, first part of his report of
- <sup>22</sup> the supplemental report.
- All right. That's all the questions I
- <sup>24</sup> have for right now. We're gonna go off the

Page 105 of 130 Page 412 <sup>1</sup> record and I'll change seats with my colleague. 1 O Let me ask you a few things <sup>2</sup> preliminarily. The one thing I noticed on your <sup>2</sup> Thank you very much. <sup>3</sup> CV is that you had a consultancy with Cyprus 3 **A** Sure. <sup>4</sup> Mines Corporation --<sup>4</sup> VIDEOGRAPHER: Going off the record. The time is 5 A Yes. 6 5 p.m. 6 **Q** -- at some point. Can you tell us when (OFF THE RECORD.) <sup>7</sup> that was? 8 A 8 VIDEOGRAPHER: 1971 and '72. And this was as a We're back on the record. The time is consultant through a firm that I worked for. <sup>10</sup> 5:01 p.m. 10 O And what firm were you working for at 11 11 that time? **EXAMINATION** 12 A 12 BY MR. FERGUSON: Lindgren Exploration Company. 13 **Q** Good afternoon, Dr. Cook. How are you? 13 O And could you tell us the general 14 A <sup>14</sup> nature of your consultancy with Cyprus Mines We met briefly before the deposition 15 O <sup>15</sup> Corporation? <sup>16</sup> started. 16 A Exploration for massive sulfites, 17 A <sup>17</sup> looking for copper. Yes. 18 **Q** My name is Ken Ferguson. Along with So it was an exploration stage rather 19 Andrew Cary here to my right, we represent 19 than a mining stage like you've been talking <sup>20</sup> Imerys. You understand that? <sup>20</sup> about today? 21 A Yes. It was exploration. 21 A Yes. 22 **Q** <sup>22</sup> O And I'm gonna ask you some questions And how long did that consultancy with <sup>23</sup> today regarding your testimony and your report. <sup>23</sup> Cyprus Mines continue, more or less? <sup>24</sup> Please make sure, as Mr. Frost told you, you 24 A It -- it was full-time pretty much for Page 413 <sup>1</sup> understand what I'm asking before you answer, and <sup>1</sup> a year and a half, and then it was part-time. <sup>2</sup> then let me know if you don't, and I'll restate <sup>2</sup> And then I came to Auburn and it continued a <sup>3</sup> the question. Fair enough? <sup>3</sup> little bit. 4 A Fair enough. But Cyprus, they -- they acquired 5 **O** Okay. And one thing that I think <sup>5</sup> property where I was working, but in the end they <sup>6</sup> everybody gets in a little trouble with in this <sup>6</sup> handed it off to Kennecott Copper and, you know, <sup>7</sup> process, particularly if they haven't been <sup>7</sup> the end result was a failed project. We didn't <sup>8</sup> find anything. 8 through it much before, is talking before the <sup>9</sup> person finishes asking the question. 9 O Any other consultancies with Cyprus 10 A All right. <sup>10</sup> Mines Corporation? 11 O Because we all do that in normal Not -- not under that name. You know, 12 conversation. So if you'd do your best to just 12 Cyprus was sold to FI- -- Freeport-McMoRan, 13 wait till I finish my question, and then -- and 13 somebody like that. And there were Cyprus 14 then answer, and then I think we can -- we can go <sup>14</sup> employees that moved over to Freeport. But I <sup>15</sup> a little bit smoother. Fair enough? 15 never did any more work for them, although I --16 A <sup>16</sup> you know, I was associated with their employees Fair. <sup>17</sup> even to this day. 17 MS. O'DELL: I would just add give me a millisecond 18 **Q** And I take it you've never consulted 19 between the question and the answer, and I'll <sup>19</sup> with Imerys? 20 have my opportunity to object if I need to. 20 A No. I have. 21 THE WITNESS: 21 **Q** Okay. Tell me the nature of that 22 Okay. <sup>22</sup> consultation.

23 MR. FERGUSON:

Fair enough.

24

I -- I was a witness for them in a

<sup>24</sup> sinkhole litigation at Sylacauga.

Page 416 Page 414 1 O I'm sorry. At what? I just want him to understand that 2 A <sup>2</sup> there's not another document other than what he Sylacauga. It's the name of a town <sup>3</sup> where Imerys has three operating quarries. They <sup>3</sup> has marked as exhibit -- it's been marked as <sup>4</sup> make fine ground ultra-white carbonate for paper <sup>4</sup> Exhibit 1 and 2, that that red-line is something <sup>5</sup> coating and other -- other things. <sup>5</sup> that you -- you've created. 6 MR. FERGUSON: 6 **Q** And when was that? 7 A It's been within the last ten years. Fair enough. Yes. And I didn't mean 8 It was a -- this was a relationship that was <sup>8</sup> to imply otherwise. So, yes. <sup>9</sup> probably a year and a half long. I think I was I just wanted to see what change you <sup>10</sup> deposed twice. 10 made, and there are some computer programs you 11 O And how about Luzenac? Any 11 can do. I think we -- we all do them on <sup>12</sup> occasion. <sup>12</sup> consultancies with Luzenac? 13 A 13 So are you with me on page 11? No. 14 **O** 14 A I am on page 11. How about Rio Tinto Minerals? All right. And you see there's a 15 A 15 O No. <sup>16</sup> paragraph that starts "serpentine asbestos"? 16 O Let me change gears a little bit and ask you about a couple things in your report. 17 A Yes. 18 **Q** 18 A Sure. Do you see that? 19 **O** And I'll tell you, I'm kind of 19 A Yes. <sup>20</sup> prioritizing since I -- I have limited time. I'd 20 **O** And, in that paragraph, about midway 21 like to finish up relatively quickly here. And, 21 through, I guess four lines down, you say, "In 22 so, I may skip around a little bit. It's not to <sup>22</sup> 1991, Dr. Alice Blount reported the presence of <sup>23</sup> confuse you. <sup>23</sup> asbestos needles and fibers in Vermont talc which she later confirmed to be J&J baby powder." 24 A I understand. Page 415 Page 417 So just make sure we're on the same And then you cite to Blount 1991 and 1 O <sup>2</sup> page when you answer the questions. Fair enough? <sup>2</sup> her deposition. Is that correct? 3 A Sure. Well, I think that it was -- what I've 4 O And, also, I decided it would be smart <sup>4</sup> referenced there might have been an exhibit in <sup>5</sup> to -- to copy or print your red-line version of <sup>5</sup> Hopkins' deposition. <sup>6</sup> your -- your report so I could see what changes 6 O Okay. Fair enough. <sup>7</sup> you made, but it messed up the pagination. So if And but you also, in your citation, say 8 I get messed up there, you'll have to bear with 8 "Dep Alice Blount" --<sup>9</sup> me. Fair enough? 9 A Right. 10 A 10 **Q** Fair. -- "Ph.D." 11 O 11 A Right. I read her deposition. Can you go to page 11 of your report, 12 please, sir? 12 **O** Okay. 13 MS. O'DELL: 13 A She talked about it. What -- what red-line? Is that a 14 O All right. Now, did you read her 1991 15 red-line you created? 15 paper? 16 MR. FERGUSON: 16 A Yes, I did. 17 No. It's your -- it's the red-line --<sup>17</sup> O And while you say in here that she 18 yeah, yeah. 18 later confirmed the presence of asbestos needles 19 MS. O'DELL: <sup>19</sup> and fibers in what she later confirmed as J&J Because there was no red-lining --20 <sup>20</sup> baby powder, there's no reference to J&J baby powder in her paper itself in 1991, is there? 21 MR. FERGUSON: 22 I understand. I just did a compare. 22 A I don't think so.

23 **O** 

24 A

23 That's all.

24 MS. O'DELL:

And when you read her deposition --

I mean, I think she was very careful,

Page 420 Page 418 1 really, not to identify what she was working 1 O And we're gonna go through these notes <sup>2</sup> with. I think she gave, you know, numerical or <sup>2</sup> in more detail later so -- so we can understand <sup>3</sup> letters to her samples. <sup>3</sup> what they are, but I just wanted to hit this 4 MS. O'DELL: <sup>4</sup> point early on. 5 In the paper? If you'd pass that back to me if you're 6 THE WITNESS: 6 done. 7 A Right. Sure. I think that she was trying to, you 8 Q That's all I wanted to ask you. And then I wanted to ask you about 3.5, <sup>9</sup> know, shield the sources. 10 MR. FERGUSON: <sup>10</sup> which I will pass to Miss O'Dell first. 11 Q Okay. But in the paper, <sup>11</sup> MS. O'DELL: 12 Johnson & Johnson baby powder was not identified? Thank you. 13 MR. FERGUSON: 14 Q 14 O And you say she later confirmed that a Now, again, is that another page of 15 sample was Johnson & Johnson baby powder. 15 your notes? 16 Correct? 16 A Yes. 17 A <sup>17</sup> O Okay. And, if you wouldn't mind, can Correct. Now, I have marked as -- it was already 18 you hand it -- since we just got it today, I 19 marked as Exhibit 3 -- a folder with your notes, 19 didn't make copies of it. 20 and I've taken the liberty -- I hope it's okay --20 A Sure. 21 **Q** Can you hand it to me and let me ask 21 A 22 **O** -- marking each page. There's a 3.1, <sup>22</sup> you a question or two? 23 3.2, so we can identify what we're talking about. 23 You have a notation after page 53 that 24 Fair enough? <sup>24</sup> says "date confusion, 1996 purchase versus 1991 Page 419 Page 421 <sup>1</sup> paper. Sample I-J&J baby powder." <sup>1</sup> A Fair enough. 2 A Uh-huh. 2 **O** Okay. And let me show you what I've <sup>3</sup> marked as Exhibit 3.2. 3 **Q** Is that correct? Did I read that 4 correctly? <sup>4</sup> MS. O'DELL: Can you do a round robin so I can --Right. And I'm not sure that I wasn't <sup>6</sup> the one confused. But when I -- when I read --<sup>6</sup> MR. FERGUSON: 7 <sup>7</sup> this was in her deposition. I believe these page Yeah. If I find --<sup>8</sup> numbers refer to her deposition. And I think 8 MS. O'DELL: <sup>9</sup> that she corrected some information that she may -- so I can --<sup>10</sup> MR. FERGUSON: <sup>10</sup> have misspoke. 11 **Q** But -- but you certainly, in reading 11 Sure. <sup>12</sup> A 12 it, were confused about what she was talking Okay. <sup>13</sup> about: correct? <sup>13</sup> MR. FERGUSON: And there's a reference to Alice Blount 14 A Correct. 15 at the top of that page; correct? 15 O And you were confused about what she <sup>16</sup> was talking about with regard to the sample that 16 A Yes. <sup>17</sup> she was trying to identify; correct? <sup>17</sup> **Q** And what -- what does that say? I just <sup>18</sup> want to make sure I know what it means. 18 MS. O'DELL: <sup>19</sup> A It says "Add Alice Blount." 19 Object to the form. <sup>20</sup> **Q** 20 A And, then, what does that mean? It was the dates. Only -- only the It simply meant that I needed to <sup>21</sup> A <sup>21</sup> dates. <sup>22</sup> include her in my report. 22 MR. FERGUSON: 23 **Q** Okay. And you say in here 1991 versus I see. <sup>24</sup> 1996; correct? 24 A That's all.

Page 424 Page 422 1 A Correct. 1 O And -- and, so, I want to understand 2 **Q** <sup>2</sup> that testimony. I think you and Mr. Frost talked Okay. Did that have to do with when <sup>3</sup> a bit about that. You're -- you're saying that, <sup>3</sup> she acquired the sample? I think that that had to do with the <sup>4</sup> for example, Mr. Downey noted in his deposition <sup>5</sup> date that she mentioned in her deposition, which <sup>5</sup> that the talc is asbestos-free. Is that correct? 6 was incorrect. Now, that's from my memory. 6 A I think so. And, then, you've written another note <sup>7</sup> O Let's look at a portion of his <sup>8</sup> deposition together. And if you'd go to your 8 by page 57. And what does that note say? You're asking me to read my own <sup>9</sup> left, I believe, is a white binder that says 9 A 10 writing? 10 "Downey." 11 Q If you don't mind. 11 A Yeah. Okay. 12 **Q** 12 A You've got it? Okay. 13 **Q** I can take a shot at it, but you may 13 A Yeah. Sure. 14 have a better shot. 14 O Okay. And -- and, if you would, turn <sup>15</sup> to Mr. Downey's deposition. 15 A It says "Confusion concerning sample 16 IDs." 16 A Okay. 17 And, again, it was -- it was me that 17 MS. O'DELL: <sup>18</sup> was confused. I had to go back and reread what Ken, when you get to wherever you're 19 she was saying, and there were a couple of going, let me know the number. I can get there, <sup>20</sup> handwritten exhibits, I think, in her deposition but it may take me just a second. 21 that -- that I had to look at two or three times. 21 MR. FERGUSON: Sure. Yep. Yep. I have that. I'm And would you agree that there was some 23 confusion about when she purchased the particular 23 trying to identify the pages on the computer. 24 sample that she was referencing and she had 24 Oh, there it is. Page 423 Page 425 <sup>1</sup> tested? 1 Q Okay. So -- so if you look at page 2 96 --2 A I don't think --<sup>3</sup> MS. O'DELL: 3 A Okay. 4 Object to the form. 4 Q So you see at -- starting at line 17 --5 A I don't think she was confused. I 5 A Uh-huh. -- the question by, I believe, <sup>6</sup> think I was confused. 6 **O** <sup>7</sup> Miss O'Dell, it says: "And 'Imerys Talc <sup>7</sup> MR. FERGUSON: 8 America.' I'm just going to go ahead, since I've 8 O Let's talk about another issue, which <sup>9</sup> is -- can you go to your report at page 41? <sup>9</sup> done that much. 'RTM and Luzenac America was/is 10 A Got it. 10 responsible for ensuring that the talc sold to 11 J&J was" -- since they're currently selling it --11 O In the -- the -- well, it's one of 12 those where I can't tell you when. There's a 12 "is asbestos-free. Can we agree on that?" <sup>13</sup> heading called "Testing Methodologies For And then the answer, after an 14 objection, is: "We test our product to ensure <sup>14</sup> Asbestos Were Inadequate." 15 that it doesn't contain measurable asbestos, and Correct? 16 A 16 that's what I can agree to." Yes. <sup>17</sup> O 17 Okay. And in, I believe, the first And that's what Mr. Downey answered. <sup>18</sup> paragraph, the last sentence, it says, 18 Correct? 19 "Regardless, the specification for cosmetic talc 19 MS. O'DELL: <sup>20</sup> as indicated in the Hopkins, Downey, and Pier 20 Object to the form. <sup>21</sup> depositions of 2018 is that the talc is 21 A That's what he said here. I'm not sure <sup>22</sup> asbestos-free." 22 this is the only point in his deposition that 23 23 this topic appears. Correct? 24 A 24 I would also like to add something to Yes.

- <sup>1</sup> that. The concept of measurable asbestos is an
- <sup>2</sup> interesting one. There's a way to preconcentrate
- 3 samples that gives you a lot bigger opportunity
- <sup>4</sup> to detect small amounts of asbestos. And this
- <sup>5</sup> was pointed out in the -- in the '70s by both
- <sup>6</sup> Pooley, Colorado School of Mines, and even, I
- <sup>7</sup> believe, Dartmouth. And this idea of
- preconcentration --
- Oh, and Alice Blount even -- that was
- <sup>10</sup> what she used. It was completely rejected for
- 11 reasons unknown. And it would have -- it would
- 12 have allowed a much lower detection limit.
- And, so, it's easy to say, you know,
- <sup>14</sup> well, we didn't really detect any. But he could
- 15 have added but we might have if we'd used a
- <sup>16</sup> preconcentration technique, as recommended. So,
- 17 you know, I'm not sure what -- what he really
- 18 might have been meaning there.
- Okay. Well, but you don't know what he
- 20 meant, but we can read what his testimony was, as
- <sup>21</sup> we did: correct?
- 22 MS. O'DELL:
- 23 Object to the form.
- 24 A And we did.

- Page 428 <sup>1</sup> asbestos-free, and we've been, you know, in this
- <sup>2</sup> room together for a few hours and, you know,
- <sup>3</sup> even, say, that the air in this room is
- <sup>4</sup> asbestos-free. So I can't really agree with the
- <sup>5</sup> way that you've written that."
- Did I read that correctly?
- 7 A Yeah.
- 8 O Okay. And certainly based on the
- answers that we read --
- 10 And I'm not gonna sit here and read the
- whole deposition, and you wouldn't want me to.
- 12 A Yeah. That's a problem.
- 13 O But in terms of what we've read, he did
- <sup>14</sup> not say that the policy was asbestos-free. He
- <sup>15</sup> explained in his answers what his -- what the
- policy was or his philosophy of the policy.
- <sup>17</sup> MS. O'DELL:
- 18 Object to the form.
- <sup>19</sup> MR. FERGUSON:
- Q 20 Correct, sir?
- I think on the two pages we looked at
- <sup>22</sup> out of a deposition that's, what, 5- or 600 pages
- 23 long.
- 24 **O** Can you cite me to the portion --

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- <sup>1</sup> MR. FERGUSON:
- Okay. Why don't you go to page 97. 2 O
- <sup>3</sup> Let's read one more question and answer.
- 4 A Okay.
- 5 **Q** At page 97, starting at line 20 --
- 6 A Okay.
- -- by Miss O'Dell: "Is that fair? 7 O
- <sup>8</sup> Because you wouldn't agree it's not -- you won't
- agree it's asbestos-free. You agree that it's
- <sup>10</sup> below detectable limits; true?"
- 11 And then Mr. Downey's answer is -- is a
- 12 little long, so just follow it along with me. He
- 13 says, on page 98: "Our talc, we have a rigorous
- 14 testing program that also includes not only the
- 15 testing itself but our knowledge of the ore
- <sup>16</sup> deposits and the testing that and sampling and
- mapping that we do continually through the
- <sup>18</sup> process. We are confident that our products are
- 19 safe, but in terms of a detection limit, I'm not
- <sup>20</sup> the expert on that. Julie Pier can speak to
- <sup>21</sup> that. But the scientific instruments are not <sup>22</sup> available to tell us that our product is, quote,
- <sup>23</sup> unquote, asbestos-free. We can't say that in
- 24 this room that has air in this room is

- No. 1 A
  - -- in which Mr. Downey said what you

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- <sup>3</sup> said he said, which is that the policy is
- 4 asbestos-free?
- 5 A No.
- MS. O'DELL:
- Object to the form.
- 8 MR. FERGUSON:
- 9 O Okay. You can -- you can put that
- <sup>10</sup> away. I think we're through with Mr. Downey for
- <sup>11</sup> the time being.
- 12 A Okay.
- 13 O Just go ahead and set that to your
- 14 left, because I know it's a big volume.
- 15 MS. O'DELL:
- 16 Don't let it go far. I'll take it.
- <sup>17</sup> MR. FROST:
- 18 You there, Leigh?
- 19 MS. O'DELL:
- 20 Yeah, I've got it. I'm good.
- 21 MR. FERGUSON:
- 22 You good?
- 23 MS. O'DELL:
- 24 Yeah. I'm good. Barely.

Page 432 Page 430 <sup>1</sup> MR. FERGUSON: Object to the form. 2 2 A I thought that you asked about Barely? <sup>3</sup> peer-reviewed publications. I've not cited Longo 3 MS. O'DELL: <sup>4</sup> in a peer-reviewed publication. The only place Barely. <sup>5</sup> MR. FERGUSON: <sup>5</sup> I've ever mentioned him is in my expert report. <sup>6</sup> I guarantee it won't be published. You ready for us to go, Leigh? MS. O'DELL: <sup>7</sup> MR. FERGUSON: 8 **Q** 8 Yeah, yeah. In your report on a number of MR. FERGUSON: occasions, you refer to contemporaneous testing Dr. Cook, as you and Mr. Frost talked 10 that shows the presence of -- of certain 10 O <sup>11</sup> about, you've published a number of peer-reviewed 11 contaminants in Johnson & Johnson's baby powder. <sup>12</sup> academic papers; correct? 12 Correct? 13 A Correct. 13 A "Contemporaneous testing." 14 Q Is it fair to say that customarily you 14 O Yes, sir. <sup>15</sup> cite peer-reviewed research in your academic I mean, is that your word or my word? 15 A That's your word. 16 papers? 16 O 17 A It's not the only thing you cite, but, 17 A Okay. 18 sure, that's fair enough. When you refer to contemporaneous Okay. And -- and in your academic 19 testing, are you referring to -- to Dr. Longo's 20 report? <sup>20</sup> papers, would it be fair to say that you 21 generally do not cite to paid experts for a 21 A No. 22 particular party with an interest in the 22 **O** Okay. What are you referring to? 23 litigation? 23 A No. I think contemporaneous testing 24 MS. O'DELL: 24 means that you're -- you're testing in a -- in a Page 431 Page 433 Object to the form. 1 timely manner relative to the processes that are 1 I would hope not to do that. <sup>2</sup> in place. For instance, if you're gonna -- if 2 A <sup>3</sup> MR. FERGUSON: <sup>3</sup> you're gonna test the drill cuttings that are <sup>4</sup> generated by your blast hole driller, then you Okay. So in your academic papers, you <sup>5</sup> would not cite to a non-peer-reviewed publication 5 need to go ahead and analyze those. It makes no <sup>6</sup> that is authored by a litigation expert who was 6 sense to wait for a year after the blast has been <sup>7</sup> hired by a particular side in litigation; 7 made and another blast and another blast and then 8 correct? 8 analyze them. That would not be contemporaneous 9 MS. O'DELL: <sup>9</sup> testing. And that's all I'm saying. You need to 10 Object to the form. 10 be testing as you move forward in the milling and 11 A 11 mining process so that you know what the If I did, it would not be on purpose. 12 MR. FERGUSON: 12 character of the material is at the time that 13 **Q** But in your report here, that's exactly 13 you're producing it, not a year or ten years <sup>14</sup> what you did do; correct? 14 later. 15 A 15 **Q** And you and Mr. Frost talked toward the I don't know. 16 O <sup>16</sup> end of your questioning about the extent to which Did you cite to Mr. -- Dr. Longo's <sup>17</sup> you relied or didn't rely on Dr. Longo's testing. <sup>17</sup> report? 18 Do you recall that conversation? 18 A Oh, I had to. Of course. I mean, I'm 19 not sure that I understand why there's a problem 19 A <sup>20</sup> with that. 20 **Q** Okay. And I'm not gonna go back 21 **O** 21 through that. But that is different than what you do <sup>22</sup> in your academic papers. 22 A I mean, I've referenced him. And 23 that -- that was why I said I'd like to say a Well, but you --<sup>24</sup> little -- a little bit more about Longo.

24 MS. O'DELL:

	Robert 258	105	Fh.D. 14ge 111 01 100
	Page 434		Page 436
1	Because, you know, he has more than one report.	1	MS. O'DELL:
2	Q Now, Dr. Longo's reports relate to	2	Fair enough.
3	whether there is or is not asbestos in baby	3	MR. FERGUSON:
4	powder; correct?	4	Trying to save time there.
5	A And fibrous talc.	5	MS. O'DELL:
6	Q Okay. Now, are you aware that the	6	Okay. Well, I'm just being clear.
7	U.S. Food and Drug Administration actually tested	7	MR. FERGUSON:
8	a number of body powder products and raw material	8	Fair enough. So we'll start over so I
9	talc about ten years ago to determine if, in	9	say that say that technically correct.
10	fact, there was asbestos detected in that that	10	Q You are aware, then, that a raw
11	product or those products?	11	cosmetic raw material talc that was supplied by
12	A I'm	12	Rio Tinto Mineral/Luzenac America in eight
13	MS. O'DELL:	13	separate lots was supplied to the FDA for
14	Object to the form.	14	testing?
15	A I'm familiar with the report. And at	15	A I don't know about the eight separate
16	the end of the report, it says that these results	16	lots.
17	are not to be taken to mean there's no asbestos	17	Q Okay.
18	in these products.	18	A I don't remember that.
19	MR. FERGUSON:	19	Q You know they supplied some.
20	Q With regard to the findings of that	20	A Yes.
	report, do you know that that both	21	Q And that there was no asbestos
	Johnson & Johnson and Imerys supplied product to	22	detected; correct?
23	be tested by the FDA?	23	A Correct.
24	A Yes.	24	Q And that there was no asbestos
	Page 435		Page 437
1	Q Correct?	-	A 337'.1 .1 1 1 1
		1	A With some methods employed.
2	MS. O'DELL:	2	Q Of course. With the methods they
		2	
3	MS. O'DELL:	2 3 4	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the
3	MS. O'DELL: Object to the form. That's a	2 3 4	Q Of course. With the methods they employed, the U.S. Food and Drug Administration,
3 4	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're	2 3 4 5	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the
2 3 4 5	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware.	2 3 4 5	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?
2 3 4 5 6	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON:	2 3 4 5 6	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL:
2 3 4 5 6 7	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back.	2 3 4 5 6 7	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.
2 3 4 5 6 7 8	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back. MS. O'DELL:	2 3 4 5 6 7 8	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL:  Object to the form.  A Yes.
2 3 4 5 6 7 8	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back. MS. O'DELL: In terms of supplying it. They purchased it, but Johnson & Johnson did not supply.	2 3 4 5 6 7 8	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL: Object to the form.  A Yes.  MR. FERGUSON:
2 3 4 5 6 7 8 9	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back. MS. O'DELL: In terms of supplying it. They purchased it, but Johnson & Johnson did not supply. MR. FERGUSON:	2 3 4 5 6 7 8 9	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL: Object to the form.  A Yes.  MR. FERGUSON: Q And is it also true that they obtained
2 3 4 5 6 7 8 9 10	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back. MS. O'DELL: In terms of supplying it. They purchased it, but Johnson & Johnson did not supply. MR. FERGUSON: My my bad language. Okay?	2 3 4 5 6 7 8 9 10	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL: Object to the form.  A Yes.  MR. FERGUSON: Q And is it also true that they obtained a Johnson & Johnson Shower to Shower product as
2 3 4 5 6 7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back. MS. O'DELL: In terms of supplying it. They purchased it, but Johnson & Johnson did not supply. MR. FERGUSON: My my bad language. Okay? Q Do you understand that the FDA did, in	2 3 4 5 6 7 8 9 10 11 12 13	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL: Object to the form.  A Yes.  MR. FERGUSON: Q And is it also true that they obtained a Johnson & Johnson Shower to Shower product as well?
2 3 4 5 6 7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back. MS. O'DELL: In terms of supplying it. They purchased it, but Johnson & Johnson did not supply. MR. FERGUSON: My my bad language. Okay? Q Do you understand that the FDA did, in fact, test a Johnson & Johnson baby powder	2 3 4 5 6 7 8 9 10 11 12 13 14	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL: Object to the form.  A Yes.  MR. FERGUSON: Q And is it also true that they obtained a Johnson & Johnson Shower to Shower product as well?  A I believe that's correct.
2 3 4 5 6 7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back. MS. O'DELL: In terms of supplying it. They purchased it, but Johnson & Johnson did not supply. MR. FERGUSON: My my bad language. Okay? Q Do you understand that the FDA did, in fact, test a Johnson & Johnson baby powder product?	2 3 4 5 6 7 8 9 10 11 12 13	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL: Object to the form.  A Yes.  MR. FERGUSON: Q And is it also true that they obtained a Johnson & Johnson Shower to Shower product as well?  A I believe that's correct. Q Okay. And, likewise, did they find
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. O'DELL: Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware. MR. FERGUSON: Let me go back. MS. O'DELL: In terms of supplying it. They purchased it, but Johnson & Johnson did not supply. MR. FERGUSON: My my bad language. Okay? Q Do you understand that the FDA did, in fact, test a Johnson & Johnson baby powder product? A Correct. Q And they also tested some cosmetic raw	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL: Object to the form.  A Yes.  MR. FERGUSON: Q And is it also true that they obtained a Johnson & Johnson Shower to Shower product as well?  A I believe that's correct. Q Okay. And, likewise, did they find that the Shower to Shower product had no asbestos detected by the methods they utilized?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL:    Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware.  MR. FERGUSON:    Let me go back.  MS. O'DELL:    In terms of supplying it. They purchased it, but Johnson & Johnson did not supply.  MR. FERGUSON:    My my bad language. Okay?  Q Do you understand that the FDA did, in fact, test a Johnson & Johnson baby powder product?  A Correct.  Q And they also tested some cosmetic raw material talc supplied by Luzenac; correct?  A I think that's right.  MS. O'DELL:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL:  Object to the form.  A Yes.  MR. FERGUSON:  Q And is it also true that they obtained a Johnson & Johnson Shower to Shower product as well?  A I believe that's correct.  Q Okay. And, likewise, did they find that the Shower to Shower product had no asbestos detected by the methods they utilized?  A I think that's correct.  Q Let's talk a little bit about the other substances that you have talked about today,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL:    Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware.  MR. FERGUSON:    Let me go back.  MS. O'DELL:    In terms of supplying it. They purchased it, but Johnson & Johnson did not supply.  MR. FERGUSON:    My my bad language. Okay?  Q Do you understand that the FDA did, in fact, test a Johnson & Johnson baby powder product?  A Correct.  Q And they also tested some cosmetic raw material talc supplied by Luzenac; correct?  A I think that's right.  MS. O'DELL:    Rio Tinto.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL:    Object to the form.  A Yes.  MR. FERGUSON:  Q And is it also true that they obtained a Johnson & Johnson Shower to Shower product as well?  A I believe that's correct.  Q Okay. And, likewise, did they find that the Shower to Shower product had no asbestos detected by the methods they utilized?  A I think that's correct.  Q Let's talk a little bit about the other substances that you have talked about today, including the so-called heavy metals. First of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL:    Object to the form. That's a misstatement as to Johnson & Johnson, as you're aware.  MR. FERGUSON:    Let me go back.  MS. O'DELL:    In terms of supplying it. They purchased it, but Johnson & Johnson did not supply.  MR. FERGUSON:    My my bad language. Okay?  Q Do you understand that the FDA did, in fact, test a Johnson & Johnson baby powder product?  A Correct.  Q And they also tested some cosmetic raw material talc supplied by Luzenac; correct?  A I think that's right.  MS. O'DELL:    Rio Tinto.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q Of course. With the methods they employed, the U.S. Food and Drug Administration, there was no asbestos detected in the Johnson & Johnson baby powder product that they had obtained. Correct?  A Right.  MS. O'DELL:  Object to the form.  A Yes.  MR. FERGUSON:  Q And is it also true that they obtained a Johnson & Johnson Shower to Shower product as well?  A I believe that's correct.  Q Okay. And, likewise, did they find that the Shower to Shower product had no asbestos detected by the methods they utilized?  A I think that's correct.  Q Let's talk a little bit about the other substances that you have talked about today,

C J.	Pater 238	YOK	;, Ph.D.
	Page 438		Page 440
1	1 Q You've discussed arsenic today;	1	Object to the form.
2	<sup>2</sup> correct?	2	A I don't know. But if you tell me that,
3	A Correct.	3	I would accept it.
4	4 Q Would you agree that the general	4	MR. FERGUSON:
5	population is exposed to arsenic through	5	Q Okay. I could refer you to IARC page
6	through various modes?	6	175.
7	<sup>7</sup> A Oh, I think so.	7	A Okay.
8	Arsenic is actually transported in the	8	Q I'll tell you IARC says that.
وَ	environment by water; correct?	9	A Okay.
10	MS. O'DELL:	10	Q You're not arguing with IARC on that
11	Object to the form.	11	point, are you?
12	Yes. And and the the the	12	A Nope.
13	3 limits on arsenic in water has has lowered	13	Q Okay. And nickel's found in food and
14	<sup>4</sup> dramatically.	14	drinking water; correct?
15	MR. FERGUSON:	15	A Yes.
16	And and arsenic is found in drinking	16	Q And, then, chromium was another
17	water in many places, including in the	17	substance you talked about; correct?
18	United States, correct, at some level?	18	A Correct.
19	A I think that at some level, yes. I	19	Q The general population can be exposed
20	think that you're looking at the low parts per	20	to chromium through inhalation of ambient air or
21	billion is is, you know, where you'd better	21	ingestion; correct?
22	be. If you're in the parts per million, you're	22	A Correct.
23	gonna you know, you're out of spec. You're in	23	Q Now, you've talked about each of these
24	trouble.	24	substances, nickel, chromium, arsenic, and said
	Page 439		Page 441
1	Q Would you agree that many foods even	1	that I'm trying to figure out where you
2	<sup>2</sup> contain arsenic?	2	said these are known carcinogens, I believe, in
3	A Yes.	3	each instance. Is that correct?
4	4 Q And that particularly the highest	4	MS. O'DELL:
5	concentrations of food of arsenic in food are	5	Object to the form.
6	in seafood?	6	MR. FERGUSON:
7	A I don't know that that's true. I know	7	Q In your report.
8	that it's true for probably mercury, but I'm	8	MS. O'DELL:
وَ	not I'm not sure about arsenic. But I could	9	Object to the form.
10	certainly see how arsenic could could get into	10	A Yes. You did not include cobalt;
11	seafood.	11	right?
12	Q Did you read the 2012 publication	12	MR. FERGUSON:
13	<sup>3</sup> monograph by IARC on arsenic metals, fibers, and	13	Q I did not include cobalt.
14	4 dusts?	14	A Okay. Right, then.
15	A If I read that section, I read it	15	Q Is that correct?
16	really early on in the process of going through	16	A I think so.
17	un die materials dat i was suppried.	17	Q So nickel, chromium, arsenic you have
	2 Let's talk about another substance that	18	said are known carcinogens; correct?
	you've talked about some, which is nickel. Do	19	A I believe they are.
	you recall discussing nickel today?	20	Q Now, and I realize you are not an
	A Sure.	21	expert on toxicology
22	,	22	A Correct.
	abundant element; correct?	23	Q or carcinogenicity or medicine;
24	4 MS. O'DELL:	24	correct?

Page 113 of 130 Page 444 Page 442 <sup>1</sup> A Correct. <sup>1</sup> Would you agree with me that asbestos minerals 2 **O** <sup>2</sup> are widespread in the environment? But in your report you said these are <sup>3</sup> known carcinogens; correct? Is that based on --<sup>3</sup> MS. O'DELL: Well, I think they're spelled out in Object to the form. <sup>5</sup> IARC that they are. 5 A Asbestos minerals? Yes. In terms of Now, with regard to IARC, with regard <sup>6</sup> the amphiboles with respect to chrysotile, <sup>7</sup> to -- and we'll take them separately. With <sup>7</sup> probably it's -- it's more limited in occurrence. 8 regard to nickel, is there any statement in IARC 8 MR. FERGUSON: <sup>9</sup> indicating that nickel is in any way associated And why don't -- why don't we go ahead <sup>10</sup> and just refer, in case we need to, to the IARC <sup>10</sup> with ovarian cancer? 11 MS. O'DELL: <sup>11</sup> 2012 monograph. 12 I -- I set it over there to his left, Object to the form. 13 A I did not read anything to that effect. <sup>13</sup> Leigh. I believe it's the one right there, if I <sup>14</sup> recall correctly. 14 MR. FERGUSON: Okay. And with regard to chromium, is 15 A Okay. 16 O <sup>16</sup> there any indication in the IARC report in 2012 Can you, first of all, turn to the <sup>17</sup> that chromium is in any way associated with monograph itself, which I think is the first item <sup>18</sup> ovarian cancer? 18 in there? 19 A 19 MS. O'DELL: It is. 20 Object to the form. 20 **Q** Okay. And would you go to page 222? <sup>21</sup> A Again, I didn't read anything that I'm getting there. Okay. I've got it. 21 A <sup>22</sup> O Are you there, 222? <sup>22</sup> would indicate that. 23 A Right. Uh-huh. 23 MR. FERGUSON: And, likewise, arsenic, is there any Under "Natural Occurrence" --24 **O** 24 **O** Page 443 Page 445 <sup>1</sup> indication in the IARC report that arsenic is in 1 A Uh-huh. <sup>2</sup> any way associated with ovarian cancer? <sup>2</sup> O Do you see that section? And there's <sup>3</sup> MS. O'DELL: <sup>3</sup> the sentence I just quoted, "Asbestos minerals <sup>4</sup> are widespread in the environment and are found 4 Object to the form. 5 A I didn't read anything like that. <sup>5</sup> in many areas where the original rock mass has undergone metamorphism." <sup>6</sup> MR. FERGUSON: 7 Correct? And you understand that -- that the <sup>8</sup> litigation that we're here today about deals with 8 A Correct. <sup>9</sup> ovarian cancer; correct? 9 **O** And further they go on in IARC to say 10 A I -- I understand that. <sup>10</sup> that asbestos minerals are found in the water, 11 **Q** <sup>11</sup> soil, and air. You're welcome to look at it, but I'll 12 represent to you on pages 5 to 6 of your report Is that accurate? 13 you -- you have a quote that says, "Hand sorting 13 MS. O'DELL: 14 at the Chinese mine is used as a first step in In terms of what it states or --<sup>15</sup> MR. FERGUSON: <sup>15</sup> the beneficiation process." 16 Do you recall generally making that 16 O Yeah. <sup>17</sup> A <sup>17</sup> comment? Air monitoring for asbestos is -- was a 18 A 18 major industry. So with respect to air, Sure. Of course. 19 **Q** Well, we can look it up if you want. <sup>19</sup> certainly. Soil, certainly. There's been lots 20 A No. I remember writing it. It's true. <sup>20</sup> of work done on that. Water, I don't -- I don't 21 **Q** Okay. Are you critical of hand sorting 21 have a knowledge base relative to water with

<sup>22</sup> as a first step in the beneficiation process?

Let's talk a little bit about asbestos.

23 A

24 O

No.

<sup>22</sup> respect to asbestos. I'm sure you can find it in

<sup>24</sup> waters aren't gonna be directly related to some

23 some waters. I'm not sure that -- that these

<sup>1</sup> peculiar industrial application, such as maybe 1 O Cubic meter. My bad. I know three is <sup>2</sup> outside of an insulation factory, something like <sup>2</sup> a cubic. 3 that you might find surface water that has a 3 **A** Yep. <sup>4</sup> little asbestos in it. 4 Q Is that correct? 5 **Q** Take a look at page 224. 5 A Correct. Okay. Okay. Got it. Okay. And do you take issue with that? 6 A 6 **Q** 7 **Q** You see there's a section on water? 7 I know --I see it. 8 A 8 A No. 9 **Q** It says, "Asbestos can enter the 9 **Q** And then it goes on to say in that <sup>10</sup> aquatic environment from both natural and paragraph, "Typical concentrations are about <sup>11</sup> anthropogenic sources." 11 tenfold higher in urban locations and about 1,000 12 A 12 times higher in close proximity to industrial Sure. 13 O And has been measured in both ground 13 sources of exposure, asbestos mine or factory, <sup>14</sup> demolition site or improperly protected <sup>14</sup> and surface water samples; correct? <sup>15</sup> asbestos-containing waste site." 15 A Yes. 16 That's what IARC says; correct? <sup>16</sup> MS. O'DELL: 17 Would you mind finishing the paragraph? 17 A I think there's lots of data on that. 18 **Q** <sup>18</sup> MR. FERGUSON: Sorry? 19 A 19 Oh, I'm happy -- I'm happy to read the I think there's a lot of data on that <sup>20</sup> whole paragraph. I don't want to read the whole <sup>20</sup> that would suggest that that's a correct <sup>21</sup> thing. But it says, "Erosion of asbestos-bearing 21 statement. <sup>22</sup> rock is the principal natural source. <sup>22</sup> O And just a couple more here. In the 23 Anthropogenic sources include erosion of waste 23 next paragraph, it says, "In indoor air -- e.g., <sup>24</sup> in homes, schools, and other buildings --<sup>24</sup> piles containing asbestos, erosion of asbestos Page 447 Page 449 <sup>1</sup> cement pipes, disintegration of <sup>1</sup> measured concentrations of asbestos are in the <sup>2</sup> asbestos-containing roofing materials and <sup>2</sup> range of 30 to 6,000 fibers per cubic meter." <sup>3</sup> industrial wastewater runoff." Correct? 4 MS. O'DELL: 4 A Correct. Okay. So the bottom line is there is a level <sup>6</sup> MR. FERGUSON: <sup>6</sup> of background exposure to asbestos for the <sup>7</sup> Q Why don't you go to page 225. <sup>7</sup> general population. Correct? 8 MS. O'DELL: 8 A Okay. And you see there's a section called Object to the form. 10 A <sup>10</sup> "Exposure of the General Population"? I think it's a correct statement. 11 A <sup>11</sup> MR. FERGUSON: Yes. 12 **O** And the first sentence there says, 12 **O** I'm sorry? 13 "Inhalation of asbestos fibers from outdoor air 13 A I think that's a correct statement. <sup>14</sup> and, to a lesser degree, an indoor air is the I want to talk to you a little bit <sup>15</sup> primary route of exposure for the nonsmoking <sup>15</sup> about your notes that we made reference to <sup>16</sup> general population." <sup>16</sup> earlier. Just -- I'm not gonna have you read 17 <sup>17</sup> them into the record. Correct? 18 A 18 A Okay. Correct. 19 O If you look in the next paragraph, the <sup>19</sup> **O** Thankfully. <sup>20</sup> second sentence says that low levels of asbestos <sup>20</sup> A Yeah. <sup>21</sup> have been measured in outdoor air in rural <sup>21</sup> O But I just had a few questions on <sup>22</sup> locations. Typical concentration, 10 fibers per 22 the -- what I'll hand to you as 3.1. You have <sup>23</sup> square meter. Correct? 23 the letter K in the upper left-hand corner, and

Cubic meter.

24 A

<sup>24</sup> then it says "Page 4, Italian-mined ultramafic

		Robert 238	<b>10</b> 6	, Ph.D. 120
		Page 450		Page 452
	1	origin" with two question marks. Okay? And	1	A Sorry about that.
	2	we'll let Miss O'Dell take a look at it, and then	2	MR. FERGUSON:
	3	I'll ask you what is meant by that.	3	Q And my question to you is
	4	A Sure. Not a problem.	4	And feel free to look at take your
	5	Q Okay. I'm	5	time to look at it if you need to.
	6	A I wish I had put dates on these.	6	At the top, it says, "For expert report
	7	Q I'm assuming that that is a reference	7	12-29-18." What does that mean? Does that mean
	8	to Dr. Krekeler's report. Is that correct?	8	it's well, you tell me what that means. Notes
	9	A I think it is.	9	for your expert report?
:	10	Q Okay.	10	A I turned in my the first version of
:	11	A I can tell you what what the note	11	my expert report prior to this date. And then
:	12	means.	12	these are notes about things that need to be
:	13	Q All right.	13	added since I'm getting the material.
:	14	A There there are ophiolites	14	Q Okay. Fair enough.
:	15	associated with the mountain-building process	15	Then 3.8, I'm just trying to figure out
:	16	that produced the Alps. And, so, ophiolites are	16	generally what that is.
:	17	ultramafic. So you could have had talc	17	A Sure.
:	18	occurrences that were similar to those in Vermont	18	Q You don't have to fill me in on all the
:	19	or you could have had the Val Chisone type, which	19	details but I'm trying to understand what the
:	20	we know are actually related, to metamorph those	20	purpose of that document is.
:	21	carbonate rocks. And I I was making really a	21	A Sure.
2	22	note to myself to go back and take a hard look at	22	Oh, this is something that I did very
2	23	the Italian talc occurrences and make darn sure	23	early on. When I first was asked by Miss O'Dell
2	24	that there are no ultramafic rocks associated	24	to look at this, one of the things I did was to
		Page 451		Page 453
	1	Page 451 with Val Chisone.	1	Page 453 try to track possible talc sources. I wasn't
	1 2	with Val Chisone.		try to track possible talc sources. I wasn't
		with Val Chisone. Q Okay.	2	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana
	2	with Val Chisone. Q Okay. A And that's all that means.	3	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point
	2	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back	3 4	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a
	2 3 4	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back  A Sure.	3 4	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a cosmetic product, for example.
	2 3 4 5	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back  A Sure.  Q please?	2 3 4 5 6	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a cosmetic product, for example.  So this is this is just a page where
	2 3 4 5 6	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back  A Sure.  Q please?  A You bet.	2 3 4 5 6 7	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc
	2 3 4 5 6 7 8	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back  A Sure.  Q please?  A You bet.  Q Are there any ultramafic rocks in	2 3 4 5 6 7	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it.
	2 3 4 5 6 7 8	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back  A Sure.  Q please?  A You bet.  Q Are there any ultramafic rocks in Val Chisone?	2 3 4 5 6 7 8	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc
	2 3 4 5 6 7 8 9	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back  A Sure.  Q please?  A You bet.  Q Are there any ultramafic rocks in Val Chisone?  A They are not shown in the immediate	2 3 4 5 6 7 8	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it.  Q Thank you.  A Sure.
:	2 3 4 5 6 7 8 9 10	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back  A Sure.  Q please?  A You bet.  Q Are there any ultramafic rocks in Val Chisone?  A They are not shown in the immediate proximity to those talc deposits.	2 3 4 5 6 7 8 9 10	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it.  Q Thank you.  A Sure.  Q And then there's several pages that I
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	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	with Val Chisone.  Q Okay.  A And that's all that means.  Q Could I have that back  A Sure.  Q please?  A You bet.  Q Are there any ultramafic rocks in Val Chisone?  A They are not shown in the immediate proximity to those talc deposits.  Q Okay.  A If they're there, you don't see them on the map of the deposits.  Q So you're not aware that they're there. You don't see  A I don't think that the talc deposits are related to ultramafic rocks.  Q I'm sure all this will be very interesting, but I'm not going to take the time to go through each of these.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	try to track possible talc sources. I wasn't aware of I mean, I knew that there was Montana talc being mined. I didn't know at this point whether or not Montana talc was being used as a cosmetic product, for example.  So this is this is just a page where I was jotting down some notes about where talc had been mined in the US. That's it.  Thank you.  A Sure.  And then there's several pages that I think seem obvious that you had a Downey depo. Then you have notes  Right.  out beside page whatever.  Sure.  So you've made notes on various depositions; correct?  Yes.  Did you read a transcript of a trial called Herford?

- 1 A What would be a -- a name, a person's <sup>2</sup> name that would be deposed?
- 3 **Q** I can't tell you.
- I mean, the -- I think I've actually 4 A
- <sup>5</sup> seen the Herford name, but I don't -- I don't
- <sup>6</sup> know that I've seen a deposition or a transcript.
- Let me show you 3.9. Just let me know
- 8 what that is. I'm trying to figure out what it
- <sup>9</sup> is you summarized there.
- 10 A Okay.
- 11 MS. O'DELL:
- 12 And you're just talking to -- about
- 13 this here? Because there appears to be --
- MR. FERGUSON:
- There are a number of things in there.
- <sup>16</sup> MS. O'DELL:
- 17 That the Hicks deposition's reference,
- <sup>18</sup> which, of course, would have been in this case,
- <sup>19</sup> and some other?
- <sup>20</sup> MR. FERGUSON:
- 21 Right. Yeah.
- <sup>22</sup> **Q** The Herford notation, what is that?
- 23 MS. O'DELL:
- 24 Right in the center of that page.

- Would you describe for us the
  - <sup>2</sup> methodology that you've used in reaching your

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- <sup>3</sup> opinions in this case?
- Okay. When -- when -- when you first
- <sup>5</sup> approached me and we discussed the -- the data
- <sup>6</sup> sets that you thought would be available and, you
- <sup>7</sup> know, did I understand mining techniques that
- 8 might be related to what we were doing and did I
- <sup>9</sup> understand the milling processes, did I
- 10 understand the -- the methodology in testing, you
- <sup>11</sup> know, I answered affirmatively. So you began to
- supply me with documents.
  - But based on your original description
- <sup>14</sup> of the project, I started doing my own background
- literature review. And, so, I began to weed that
- <sup>16</sup> literature review, the knowledge I had with that
- review, in with information that I already had in
- my head relative to talc and asbestos and heavy
- 19 metals and the mining. Anyway, I began to
- <sup>20</sup> develop a database from which I worked.
- And, so, as you began to give me <sup>22</sup> information, I began to categorize it based on
- 23 the type of information. Is it asbestos sources?
- <sup>24</sup> Is it mining? In other words, what does that --

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- Uh-huh. I don't know. I apparently
- <sup>2</sup> didn't use it at all. When I read the
- <sup>3</sup> deposition, apparently Hicks mentioned this on
- <sup>4</sup> page 102, and I made a note to that effect.
- I see here that it has x-ray refraction
- <sup>6</sup> mentioned. But I don't -- I don't know. I
- <sup>7</sup> didn't refer to this. I mean, I don't think I
- <sup>8</sup> referred to it in my report.
- 9 **Q** Dr. Cook, I think that's all I have.
- <sup>10</sup> Thank you -- thank you for your time, sir.
- Okay. You're welcome. 11 A
- 12 MS. O'DELL:
- 13 Let's go off the record.
- VIDEOGRAPHER:
- 15 Going off the record. The time is 5:46
- 16 p.m.

17

21

- (OFF THE RECORD.)
- 18 **VIDEOGRAPHER:**
- 19 We're back on the record. The time is
- 6:21 p.m.
  - **EXAMINATION**
- 22 BY MS. O'DELL:
- 23 **Q** Dr. Cook, I have a few questions for
- <sup>24</sup> you.

- 1 that document pertain to?
- And, in the end, I ended up with maybe
- <sup>3</sup> six or eight headings that -- that I thought I
- 4 could categorize information in.
- And, so, I began to look -- to look at
- the material that I had put in each category and
- see if there were trends that were beginning to
- come out of the -- out of these data sets.
- And, of course, in some, there were.
- And, so, I began to take notes, and those notes
- 11 were in the form originally of -- of a simple
- outline of headings with statements. And from
- 13 that outline and those statements, those
- 14 statements became paragraphs as more information
- was gained, and ultimately a report came out of
- 16 that.
- 17 And, so, I -- I approached it as I
- would any research project, except that I wasn't
- generating new data. I was evaluating existing
- data. And -- and that's an accepted technique in
- terms of using the scientific method to come to a
- 22 conclusion or an opinion.
- 23 And, so, you know, ultimately, you see
- 24 these documents here. They're about maybe 650

Page 458 <sup>1</sup> documents here, and this is not half of the

- <sup>2</sup> documents that I've reviewed so far. And --
- <sup>3</sup> and -- and I hope to continue reviewing documents
- 4 that will then add to the database from which my
- <sup>5</sup> opinions will be supported.
- Why did you -- you cited some geologic
- <sup>7</sup> references in articles. I think one of them was
- <sup>8</sup> Van Gosen. I think you were asked about
- <sup>9</sup> Chidester earlier today, as well as some
- 10 references that related to not only Vermont talc
- 11 deposits but also Italian talc. What was the
- <sup>12</sup> purpose of citing those references?
- 13 MR. FROST:
- 14 Objection to form.
- Yeah. Well, the Vermont papers had to
- <sup>16</sup> do with setting the stage for the geologic
- <sup>17</sup> framework within which the ultramafic rocks
- 18 occurred. So they weren't intended to point out
- <sup>19</sup> any character events, any specific mine. It was
- 20 to -- to give the interested reader some way to
- 21 gain background information.
- And the same is really true about the
- <sup>23</sup> Italian talc deposits. I -- I gave those
- <sup>24</sup> references that are really general geologic

- <sup>1</sup> Dr. Cook?
- <sup>2</sup> MR. FROST:
- Oh, yes. Absolutely. That's fine.

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- 4 MS. O'DELL:
- 5 O And you'll see -- I believe it's on
- 6 page 993, but that's where the --
- 7 A Right.
- 8 O -- Vermont description occurs.
- 9 **A** Sure.
- 10 O Would that description of the Vermont
- talc deposits be relevant and applicable to the
- 12 Vermont mines that were used to source
- 13 Johnson & Johnson's talcum powder products?
- 14 A Sure. It's a -- it's a brief
- 15 description of the -- the talc district as a
- <sup>16</sup> whole, and from that you can begin to -- to put
- <sup>17</sup> individual deposits. But this is just a -- a
- 18 general background paper.
- Okay. In the methodology, have you --
- you've described, is that methodology you've used
- at other points in -- in your career?
- 22 MR. FROST:
- 23 Objection to form.
- 24 A Yes. And, in fact, that's -- that's

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- 1 information so that there was a foundation upon
- <sup>2</sup> which the more detailed information could be --
- <sup>3</sup> be anchored.
- Uh-huh. Would it have been -- would it 4 O
- <sup>5</sup> be your normal practice as a professional
- 6 geologist as well as a professor to refer to and
- <sup>7</sup> cite general geological references when
- 8 describing a specific deposit?
- 9 A Yes. That's -- that's the start of
- 10 the -- if it's gonna be a paper, that's the start
- of a -- of a paper that might be submitted for
- 12 publication. You don't want to start and assume
- 13 that the reader knows more than he may know. You
- 14 need to give the reader the opportunity to start
- <sup>15</sup> at a relatively low general point.
- 16 **O** You were provided a copy that was
- 17 marked as an exhibit -- I think it was Exhibit
- 18 11. Was -- was actually the Van Gosen paper.
- 19 A Okay.
- 20 **O** And specifically in the Van Gosen
- 21 paper, I think it goes into Vermont talc deposits
- <sup>22</sup> on page 933.
- 23 And, Jack, I have it marked on mine.
- 24 Do you mind, just for ease, if hand it to

- <sup>1</sup> the standard method of operation. You're
- <sup>2</sup> presented with a problem. I go to the library
- 3 and -- and get all the material I can get and
- 4 read up on it. And, then, in the case of the
- <sup>5</sup> talc litigation here, you -- you have to treat
- <sup>6</sup> the documents that you're being given as data.
- <sup>7</sup> And the data you use as you would in any
- <sup>8</sup> scientific investigation. You use it to either
- <sup>9</sup> confirm a hypothesis or disprove it. And if you
- 10 disprove it, you modify the hypothesis and -- and
- <sup>11</sup> work on it again. And, so, and that's exactly
- <sup>12</sup> what I did here.
- 13 **O** And, in doing that, did you use the
- 14 same attention to detail that you would use in
- your duties previously as a professor of geology?
- 16 MR. FROST:
- 17 Objection to form.
- 18 Yes. In fact, the attention to detail
- 19 is almost overwhelming. There's a lot of -- a
- <sup>20</sup> lot of detail here.
- 21 MS. O'DELL:
- <sup>22</sup> O And would it also be the same type of
- <sup>23</sup> methodology that you would use in your duties
- <sup>24</sup> consulting for companies as a professional

Page 462 Page 464 1 geologist? <sup>1</sup> questions on a couple of different topics. <sup>2</sup> First, let me show you or direct your attention <sup>2</sup> MR. FROST: Objection. <sup>3</sup> back to the deposition of Patrick Downey. 4 A Yes, in fact, I've done scoping studies 4 A Sure. 5 for Kinross and one other company within the last 5 O You were asked some questions by 6 few years. And this is pretty much what they --<sup>6</sup> Mr. Ferguson about the Downey deposition. And, <sup>7</sup> what they're looking for is a -- a compilation of <sup>7</sup> if I recall correctly, the suggestion was made 8 all information available on a particular topic 8 that Mr. Downey did not testify that Imerys 9 or area put together in a report. And the <sup>9</sup> certified that the talc powder sold to 10 working hypothesis for a mining company is, in <sup>10</sup> Johnson & Johnson was asbestos-free. Do you 11 this area, given all the data that's available to 11 remember those questions? 12 you, would you recommend coming in and spending a 12 A Yes. 13 million bucks looking for a new mineral deposit? 13 MR. FERGUSON: 14 And, so, from that standpoint, it's 14 Object to the form. 15 exactly what -- what I did here. I mean, it's 15 Α I remember the questions. 16 the same general intellectual exercise. 16 MS. O'DELL: 17 MS. O'DELL: 17 **Q** In -- you know, direct your attention As a part of -- of -- of your 18 to page 508 of the transcript and to line number 19 methodology outside litigation, would you 19 15. 20 routinely rely on testing data as a part of that 20 A 508? 21 process? 21 **Q** 506. Excuse me. I'm sorry. 506, line 22 A Would I -- would I be doing the <sup>22</sup> 15. 23 testing? Sometimes. 23 A Okay. No, sir. Just -- but rely on data, 24 **O** 24 O And the question was asked to Page 463 Page 465 <sup>1</sup> testing data, in regard to your process of --<sup>1</sup> Mr. Downey: "Why were you not able to give a <sup>2</sup> A <sup>2</sup> true -- a simple true-or-false answer to the Sure. 3 **Q** -- of evaluating. question of asbestos-free?" Of course. In fact, that's one of --Answer: "Well, I was trying to be <sup>5</sup> one of the problems is waiting for data to come <sup>5</sup> scientifically accurate, perhaps hypertechnical, <sup>6</sup> in from the lab. <sup>6</sup> but it was the conjunction of the terms <sup>7</sup> Q <sup>7</sup> 'certified' and 'asbestos-free.' That's not the That's right. 8 You mentioned earlier today that you <sup>8</sup> language that we use in certifications. But if referenced the report of -- reports of Dr. -you're asking me if our product contains <sup>10</sup> Dr. Longo --10 asbestos, no, it does not." 11 A 11 And, in fact, did Mr. Downey testify Right. <sup>12</sup> **O** that the product provided to Johnson & Johnson -- and Rigler. 13 Did you rely on the data reported in 13 for its talcum powder products were free of <sup>14</sup> Dr. Longo's reports in reaching your opinions? 14 asbestos? <sup>15</sup> A Yes. MR. FERGUSON: 16 **Q** And would, as I've mentioned, 16 Objection to form. 17 testing --<sup>17</sup> MR. FROST: 18 Or let me just ask you in a non-leading 18 Objection to form. <sup>19</sup> way. 19 A It certainly sounds that way in -- in 20 <sup>20</sup> the deposition. As a professional geologist, would you 21 routinely rely on testing data as a part of 21 MS. O'DELL: 22 **Q** <sup>22</sup> your -- your responsibility? Is that what you were referring to? 23 A 23 A Yes, that is what I was referring to. Yes. 24 **Q** 24 O Let me ask you a couple of different --Thanks, Doctor. You can put that to

Page 468 Page 466 <sup>1</sup> the -- to the side. <sup>1</sup> documents that you intended to refer to? 2 A 2 A Do you want it or not? Yes. I almost think I had this 3 **Q** Just put it there. Thanks so much. <sup>3</sup> document that has a different Bates number on it. If you will now turn to page 5 of your <sup>4</sup> But, yeah, this -- this is -- that's it. 5 **Q** Okay. Thank you. <sup>5</sup> report. 6 MR. FROST: 6 A Okay. And, at the bottom of the page, in the 7 **Q** Can I see the document? 8 last paragraph on page 5, it's paragraph 8 MS. O'DELL: 9 beginning "in 2003." And on the second sentence Q All right. In --<sup>10</sup> of that paragraph, it says, "Chinese talc 10 Now, I ask -- if I could ask you, 11 occurrences included in those" -- excuse me --11 Doctor, to pull out of your -- the stack over 12 "including those in the Guangxi province have there -- and maybe Lois will help us -- Exhibit 13 been described in certain Imerys documents." <sup>13</sup> 14. 14 A 14 And then several are listed there. Okay. Getting close. <sup>15</sup> O 15 A Right. Okay. 16 MR. FROST: Okay. Got it. 16 A 17 Objection to form. <sup>17</sup> O And Exhibit 14 refers to -- the subject 18 MS. O'DELL: 18 is characterization of Guan- -- of the Guangxi 1 19 **Q** <sup>19</sup> crude and Cimpact 710 product. And I think Johnson & Johnson counsel <sup>20</sup> showed you several documents, and I think you 20 A Right. 21 indicated that there was an error in the Bates 21 **Q** Do you remember the discussion with <sup>22</sup> reference. <sup>22</sup> Johnson & Johnson counsel on that document? 23 A 23 A Sure. Right. There is. 24 **O** Let me show you what I'm marking as 24 **O** Let me ask you to turn to, while you're Page 467 Page 469 <sup>1</sup> Exhibit 32 to your deposition. 1 holding the document, Doctor -- maybe not put it <sup>2</sup> too far away from you -- to page 8 of -- of your 2 (DEPOSITION EXHIBIT NUMBER 32 3 WAS MARKED FOR IDENTIFICATION.) <sup>3</sup> report. And, at the bottom of page 8 of your <sup>4</sup> report, you include a sentence, "It is known that 4 MS. O'DELL: Is Exhibit 32 one of the documents that <sup>5</sup> Rio Tinto identified problems with Guangxi talc <sup>6</sup> you intended to reference at that portion of your 6 ores in 1997 which resulted in the recommendation <sup>7</sup> report? <sup>7</sup> that a Luzenac representative be present at the 8 mine during the mining and sorting process." I'm sorry. Doctor, can I take that <sup>9</sup> back just for a second? 9 A Right. 10 **Q** 10 A Sure. Do you recall writing that? 11 A Right. Yes. 11 O I've added another document to it. I 12 didn't intend to do that. It just was in my 12 **O** Turn to the last page of Exhibit 14 in 13 stack. 13 the Recommendations section. Is the 14 recommendation that you included in your report 14 MR. FROST: 15 contained in the paragraph on page 4 of this Leigh, can you identify what document <sup>16</sup> document? 16 this is? 17 A <sup>17</sup> MS. O'DELL: It is. 18 Sure. It is JNJ00059273. 18 O And there's a sentence -- two sentences 19 A Yeah. 19 at the bottom. It says, "A Luzenac 20 representative" --<sup>20</sup> MR. BILLINGS-KANG: 21 Is that JNJ or J&J? 21 I'm reading from page 4 of Exhibit 14. 22 "A Luzenac representative should be 22 MS. O'DELL: 23 available at the mine during the mining and 23 24 **Q** 24 sorting process in order to confirm that the Is that the document, one of the

Filed 08/22/24 Page 120 of 130 Page 472 <sup>1</sup> ore -- order is being handled per the negotiated 1 A I think it does. <sup>2</sup> contract parameters. Meeting the ore at the port 2 O And is -- is that at least one of the <sup>3</sup> will never allow us to control the quality and <sup>3</sup> reasons that you referenced that publication in 4 chemistry of the crude we are ordering." 4 your report? 5 Is that -- did I read that correctly? 5 A It is. 6 A Right. You did. Let me ask you, Doctor, to put that 6 **Q** 7 **Q** Is that what you were referring to in <sup>7</sup> aside for a moment. 8 vour report? You were asked a series of questions 9 A Uh-huh. It is. regarding whether you would publish your expert 10 O 10 report in the peer-reviewed literature. I think Thank you, Doctor. Yeah. 11 You also, still speaking of China, were 11 your response was no. Why did you respond to 12 asked about the sampling method that was used in that question in the negative? 13 relation to Chinese ore once it reached --13 MR. FROST: 14 <sup>14</sup> reached the port in Houston. Objection to form. The -- to start with, as with any work 15 A Correct. 15 A 16 MR. FROST: 16 like this, there is a confidentiality agreement 17 Objection to form. <sup>17</sup> that comes in very quickly. And publishing any 18 MS. O'DELL: part of this would -- would violate the agreement 19 **Q** that -- that I signed. Let me ask you to look at what I'm marking as Exhibit 33. 20 The -- part of the problem with this is 20 21 (DEPOSITION EXHIBIT NUMBER 33 21 that if you -- if you try to publish something in 22 WAS MARKED FOR IDENTIFICATION.) <sup>22</sup> a peer-reviewed journal, how is a peer-reviewer 23 ever gonna be able to -- to -- to evaluate a 23 MS. O'DELL: 24 **O** And it's Imerys 036949. <sup>24</sup> report like this? He's not gonna have access to Page 471 Page 473 Is Exhibit 33 the sampling protocol <sup>1</sup> any -- any of the materials. So it wouldn't make <sup>2</sup> regarding Chinese ore that you were referring to? <sup>2</sup> sense. It would be off limits. 3 **A** Yes. <sup>3</sup> MS. O'DELL: 4 O Let me ask you, Dr. Cook --4 O Is that because many of the materials, 5 I'm gonna put that right here for the <sup>5</sup> documents that you've cited in your report, those 6 would be subject to a confidentiality order and 6 moment. And on an exhibit marked -- I think it <sup>7</sup> it would be a violation of that order? <sup>7</sup> was exhibit -- yes -- 21. Let me hand it to you. 8 It's a paper by Marconi and Verdel? That's -- that's what I mean. I mean, 9 A Right. <sup>9</sup> I sign a confidentiality agreement not to divulge 10 O And if you'll turn to page --10 any of this. So --11 **Q** 11 On the -- on the document itself, the Okay. Let me ask you to turn in your <sup>12</sup> page numbers, it's -- it's page 112. 12 report, Dr. Cook, to page 31. 13 A 13 A Okay. 14 O 14 **Q** Does Table 3 that appears on page 112 And, specifically, I would direct your <sup>15</sup> of this article show test results regarding 15 attention to the table that reports some of the 16 cosmetic talc? <sup>16</sup> nickel analyses that are -- that are contained in <sup>17</sup> your report. <sup>17</sup> MR. FROST: Objection to the form. 18 A 18 Okay. 19 A I think it does. 19 O And -- and you were asked questions 20 regarding whether this -- the samples that were <sup>20</sup> MS. O'DELL: 21 **O** Uh-huh. And if you'll look at the 21 tested were finished product. And let me just

<sup>24</sup> cosmetic talc samples?

22 lower third of the table, does it -- the chart

<sup>23</sup> indicate that there were asbestos fibers found in

<sup>22</sup> back up and ask. Were the samples, many of which 23 that you report in this chart, were they finished

24 talc product?

Filed 08/22/24 Page 121 of 130 Page 476 Page 474 Objection. Move to strike answer as <sup>1</sup> MR. FROST: 2 <sup>2</sup> nonresponsive and speculative. Objection to form. That is my understanding, based on the 3 MS. O'DELL: 3 **A** <sup>4</sup> description of the samples in the cited Oppose the motion. <sup>5</sup> references. 5 **Q** The -- the -- and, in this table for 6 nickel as well as the table that is compiled for 6 MS. O'DELL: <sup>7</sup> chromium and cobalt, does that include values or <sup>7</sup> O All right. And, in fact, number 3 in <sup>8</sup> data from annual samples that were provided to 8 the chart, the description is baby powder. Johnson & Johnson? <sup>9</sup> Correct? 10 A 10 A Correct. Yes. 11 O 11 MR. FROST: And in that -- that has, I think, three <sup>12</sup> samples that were tested. And were the findings Objection. 13 1500 parts per million, 1480 parts per million, 13 MS. O'DELL: <sup>14</sup> and 1500 parts per million, respectively? 14 O And is it your understanding, based on 15 your review of the data, that that would be <sup>15</sup> MR. FROST: 16 <sup>16</sup> finished product? Objection to form. 17 A 17 A Yes. Finished in the sense that it's That's correct. 18 MS. O'DELL: gonna go toward packaging now when they're done And would it be fair to say that a <sup>19</sup> with the processing. <sup>20</sup> finding of greater than, you know, 1400 or 1500 20 **Q** Okay. Let me ask you to turn to page 21 parts per million, would it be fair to say that 21 32 of your report that relates to your discussion 22 that is an extremely high level of -- of nickel? 22 of -- of chromium. And, Dr. Cook, let me ask you <sup>23</sup> a general question about the test data that's <sup>23</sup> MR. FERGUSON: <sup>24</sup> reported in this chart. Objection for form. Page 475 Page 477 <sup>1</sup> MR. FROST: In each instance, do the chromium Objection to form. Also, object to the <sup>2</sup> numbers that were seen in these test results <sup>3</sup> question since he's already admitted he's not <sup>3</sup> exceed the Johnson & Johnson specification upper <sup>4</sup> qualified to answer that. 4 limit of normal for chromium by, you know, orders <sup>5</sup> THE WITNESS: <sup>5</sup> of magnitude? No, I am. The way she asked the 6 MR. FROST: <sup>7</sup> question, I am. I've dealt with geochemical Objection to form. 8 nickel for -- almost for the entire time I was at 8 MR. BILLINGS-KANG: <sup>9</sup> Auburn. Objection to form. They are far higher than the 10 ppm. 10 And anything over a hundred parts per 10 A 11 MS. O'DELL: <sup>11</sup> million, when we're doing our field work, that is an indication that we've got an unusual rock type Would that also be true regarding the <sup>13</sup> that we're looking at. 13 test results that are reported in relation to 14 cobalt in --And, in fact, the -- the platinum and 15 A Yes. 15 nickel exploration that I'm doing right now, if <sup>16</sup> we could find numbers this high, we'd be 16 O You were asked a number of questions thrilled, because a value of 1500 parts per 17 regarding beneficiation and the process that was 18 million nickel is almost ore grade for an undertaken to process talc ore. Let me ask you 19 open-pit operation, and it -- it indicates that specific questions about Vermont. <sup>20</sup> we're looking at a serpentinized ultramafic rock Having reviewed the descriptions of the 21 that may have economic nickel or PGMs. 21 beneficiation process at West Windsor, was there

24 ore?

Okay. And do the --

22 MS. O'DELL:

24 MR. FROST:

23 **Q** 

<sup>22</sup> anything in that beneficiation process that would <sup>23</sup> have removed high levels of nickel found in talc

Page 480 Page 478 <sup>1</sup> MR. FROST: <sup>1</sup> fibrous talc. 2 2 **Q** Objection to form. And, therefore, to the degree that 3 A No. I don't think it was -- would be <sup>3</sup> fibrous talc was mined from the ore body and --<sup>4</sup> and made a part of the ore, then is it your 4 possible. <sup>5</sup> MS. O'DELL: <sup>5</sup> opinion that the beneficiation process would not Similarly, in relation to cobalt, was <sup>6</sup> remove the fibrous talc, you know, from the <sup>7</sup> there any part of the beneficiation process at <sup>7</sup> product? 8 the West Windsor mill in Vermont that would have 8 A I don't -- I don't see how it could. addressed high levels of cobalt? You're referring to West Windsor; 10 MR. FROST: 10 right? 11 Q 11 Objection. Yes. There's a possibility that if all of 12 A 12 A I don't see how it could. 13 the cobalt was contained in cobaltite, which is a 13 O Would the beneficiation process at 14 cobalt arsenic -- that's a dense mineral -- it 14 West Windsor have been effective for purposes of removing high levels of arsenic? 15 might sink in a flotation cell and be removed 16 that way. But the numbers that I've got are on <sup>16</sup> MR. FROST: 17 the finished product, not on the -- not on ore 17 Objection to form. 18 going in. I think it's possible that some arsenic 19 MS. O'DELL: could have come out in the sink fraction of the 20 **Q** And that would suggest that, in fact, <sup>20</sup> flotation cells. 21 the beneficiation process did not affect it? 21 MS. O'DELL: It's probably --22 **Q** If asbestos was mined and removed 22 A 23 MR. FROST: <sup>23</sup> during the mining process, is there anything in 24 <sup>24</sup> the beneficiation process at West Windsor that Objection to the form. Page 479 Page 481 1 would have removed asbestos as part of the <sup>1</sup> MR. FERGUSON: <sup>2</sup> processing? Objection to the form. 3 **A** That's correct. Well, there -- there are reagents that 4 MS. O'DELL: <sup>4</sup> could suppress chrysotile. I don't know of any Let me ask it a different way to 5 **Q** <sup>5</sup> that would suppress amphibole asbestos. But I 6 didn't see anything in the documents I was 6 address these. Based on the numbers, the test data <sup>7</sup> supplied that would indicate that there was an 8 that you reviewed regarding finished talc powder, 8 attempt made or that there was any kind of design <sup>9</sup> is it your opinion that the beneficiation process 9 that was -- was pointed toward removal of -- of <sup>10</sup> at West Windsor was not affected to remove high <sup>10</sup> asbestos. 11 **Q** 11 levels of cobalt? You were asked a number of questions 12 MR. FROST: <sup>12</sup> about the chart in your report addressing 13 13 positive test results for asbestos. Do you Objection. 14 A 14 recall those questions? I don't think it could. 15 A 15 MS. O'DELL: Yes. Okay. Let me ask you about fibrous 16 O And I think that counsel for Johnson & 16 O <sup>17</sup> talc in regard to the beneficiation process. Is Johnson addressed five test results, calling them 18 it -- do you have an opinion as to whether the 18 into question as industrial talc. 19 beneficiation process at West Windsor would 19 A Correct. 20 **Q** <sup>20</sup> remove fibrous talc? And in -- in those instances --21 A I don't see how it's possible, 21 Strike that. 22 <sup>22</sup> particularly in the flotation circuit. I think Is there anything that -- that counsel 23 that the flotation process is not gonna be able presented to you today that would undermine your <sup>24</sup> opinions regarding the other test results <sup>24</sup> to distinguish platy non-fibrous talc from

Page 484 Page 482 <sup>1</sup> contained in the chart? 1 O Earlier today you were asked a lot of 2 A <sup>2</sup> questions by counsel, and a lot of suggestions No. <sup>3</sup> were made that somehow documents, you know, were 3 O And, generally speaking, if you know, 4 how many other positive test results for asbestos 4 withheld by plaintiffs' counsel. Do you recall 5 that? <sup>5</sup> are contained in a chart besides the five that he 6 A 6 pointed out? Yes. 7 A 7 MR. FROST: Oh, there's over a hundred. Objection to form. And are those test results supportive 8 O <sup>9</sup> of your opinion that the talc deposits in Italy MS. O'DELL: <sup>10</sup> and Vermont contained fibrous asbestos --At the beginning of your engagement in 10 O 11 this case, did you provide a list of -- of 11 asbestos mills? 12 documents, really document requests, that you <sup>12</sup> MR. FROST: 13 13 asked that those documents be searched for and, Objection to form. 14 A The published information and some of 14 to the degree made available by defendants, <sup>15</sup> the unpublished reports on Italy suggested there 15 provided to you? 16 A <sup>16</sup> could be some in that talc. And, of course, I've Yes. <sup>17</sup> got lots of data on Vermont that would suggest 17 **Q** Do you have any reason to believe 18 that. 18 that -- that documents were withheld from you 19 in -- in rendering your opinions? 19 MS. O'DELL: 20 MR. FROST: You were asked questions about Objection to form. Misstates 21 selective mining today, and --22 Before I do that --<sup>22</sup> questioning and testimony. 23 23 A Excuse me. Also in regard to the I have no reason to believe that --<sup>24</sup> fibrous talc chart, I think the counsel called 24 that anybody has withheld anything. You know, Page 483 Page 485 <sup>1</sup> into question maybe one of the line items or the <sup>1</sup> my -- my approach is everybody's on the up and <sup>2</sup> entries --<sup>2</sup> up. Two. Excuse me. <sup>3</sup> MS. O'DELL: Do you -- did you see, in reaching your -- two of the entries in the fibrous <sup>5</sup> talc chart that you have in your report. <sup>5</sup> opinions in regard to asbestos, did you see not <sup>6</sup> only positive test results but did you also look 6 A Right. <sup>7</sup> O Is there any data that you've been <sup>7</sup> at negative test results? 8 presented today or question that would -- data or 8 A Yes, plenty. <sup>9</sup> information you've been presented today that 9 O And did you consider those results also would call into question in your mind any of the <sup>10</sup> in --11 other positive test result -- results for fibrous 11 A Yes. 12 talc? 12 O Excuse me. Let me finish. Excuse me. 13 A 13 -- in reaching your opinions in this No. 14 MR. FROST: 14 case? 15 15 A Yes, of course. Objection. 16 MS. O'DELL: 16 O You were asked some questions about Are -- are you relying on the data 17 selective mining, and -- and you -- you made a statement that you -- it was your opinion that 18 contained in the asbestos chart to support your 19 opinions in this case? <sup>19</sup> selective mining practices had not been used 20 A 20 in -- in mining talc --Yes. 21 **O** Are you relying on the data contained 21 MR. FROST: <sup>22</sup> in the fibrous talc chart to support your 22 Objection. 23 opinions? 23 MS. O'DELL: 24 A 24 **O** Yes. -- for purposes of sourcing talcum

Page 488 Page 486 <sup>1</sup> powder products. Objection to form. <sup>2</sup> MR. FROST: <sup>2</sup> MR. FERGUSON: Objection to form. Objection. I wouldn't. I don't see anything in <sup>4</sup> MS. O'DELL: 4 A Do you recall that --<sup>5</sup> this photograph that would suggest that there was 5 **Q** <sup>6</sup> a selection of higher grade material versus lower 6 A Yes. 7 O -- testimony? <sup>7</sup> grade. 8 What's the basis for your opinion that 8 MR. FROST: appropriate selective mining practices were not Move to strike answer as speculative. 10 used? 10 MS. O'DELL: 11 A Well, to start with, they're not 11 O Is your answer speculative? 12 described in any of the documents. And -- and 12 MR. FROST: 13 the -- the few photographs that we've got of the 13 Objection to form. 14 A <sup>14</sup> mines don't suggest selective mining. It -- it It's based on my observation of the 15 just isn't there. photograph. It's conclusion. 16 MS. O'DELL: 16 O And if you'll look on page 8, is -does -- is the photograph on page 8 one of the --17 O And, in reaching that conclusion, have <sup>18</sup> the photographs that you considered in reaching 18 you used your, you know, your special expertise 19 your opinion regarding selective mining? 19 as a mining engineer and, you know, professor of 20 A <sup>20</sup> geology that teaches mining practices? Yes. 21 **O** And -- and describe for us, Dr. Cook, 21 MR. FROST: 22 <sup>22</sup> why that photograph does not depict appropriate Objection to form. 23 A <sup>23</sup> selective mining techniques. Yes. <sup>24</sup> MR. FROST: 24 MS. O'DELL: Page 487 Page 489 1 O You were asked a number of questions 1 Objection to form. <sup>2</sup> regarding samples in the sampling process that 2 A Okay. This one is fairly simple. <sup>3</sup> You've got a single loader, but you've got three <sup>3</sup> was utilized over the course of -- of the -- I <sup>4</sup> piles of broken rock that would suggest that he's 4 guess more than 50 years --<sup>5</sup> gonna be loading ore from material derived from 5 A Right. <sup>6</sup> three separate shots, and these -- these shot -- that we've discussed today. 6 O <sup>7</sup> piles are very close to each other. And there's <sup>7</sup> Ouickly, Doctor, just in a setting like the ones 8 no indication here at all that this has anything <sup>8</sup> described, particularly in Vermont, is a monthly <sup>9</sup> to do with selective mining. I mean, the only -composite sample representative? 10 the only way this is selective mining is if <sup>10</sup> MR. FROST: <sup>11</sup> everything we see in the photograph that's broken 11 Objection to form. 12 ore is good ore. We're gonna mine all of it. 12 A It wouldn't be to me. 13 But -- but this is not what I would expect to 13 MS. O'DELL: 14 see. 14 **Q** Why? 15 MS. O'DELL: 15 A Because ---Is -- is -- based on your knowledge of 16 **Q** 16 And -- and we can use arsenic as an <sup>17</sup> the geology that -example. We know that there were -- there were 18 Let me strike that. some high arsenic ores that went to the West Windsor mill. 19 Based on your review of the core logs <sup>20</sup> in -- that have been produced in this case Suppose you had one day's run at 21 regarding the Vermont mines, would you expect in Windsor mill that had an arsenic value of 10 <sup>22</sup> a picture like this that all the -- the rocks <sup>22</sup> parts per million. That exceeds the acceptable <sup>23</sup> would be, you know, pure talc? 23 limit. How would you know that that ever went 24 MR. FROST: 24 through the mill? It's gonna go through the mill

Page 490 Page 492 <sup>1</sup> and then go into a silo, and, in that silo, <sup>1</sup> your review of the core logs that have been <sup>2</sup> there's gonna be a layer that is represented by <sup>2</sup> produced in litigation, was there evidence in <sup>3</sup> those core logs of the presence of fibrous talc? <sup>3</sup> that product. Let's say the next day you've got Fibrous talc, yes, is -- was mentioned <sup>5</sup> perfect talc, hundred percent talc, no arsenic at <sup>5</sup> in some of the core logs. 6 all. Okay. That's gonna go in and it's gonna And was there also references to the <sup>7</sup> sit on top of the layer of out-of-spec talc. <sup>7</sup> presence of amphiboles? Well, if all you have is a daily 8 A Of amphiboles? <sup>9</sup> sample, then if you've got one that's 10 parts 9 **Q** Yes. <sup>10</sup> per million arsenic, had you analyzed it that 10 A Oh, yeah, sure. <sup>11</sup> day, and the -- the other 29 or 30 samples are And -- and, in some of those cases, 11 O 12 one part per million arsenic, then your composite were -- were the presence of fibrous amphiboles 13 at the end of the month is gonna be in spec, but 13 noted? 14 A 14 you're gonna have some talc in that silo that Yes. <sup>15</sup> O Let me ask you, in regard to asbestos <sup>15</sup> isn't. 16 16 testing, I think it was -- you referenced a And that's my objection to the way <sup>17</sup> compositing is done. I think it's definitely <sup>17</sup> document in your report regarding a testing 18 something that can be done in some situations, 18 procedure where samples were tested every six <sup>19</sup> but I think here it's -- it's not a good idea. 19 months for asbestos in -- in Vermont. Do you 20 recall that? <sup>20</sup> MR. FROST: 21 A Move to strike answer as speculative. Yes. <sup>22</sup> O 22 MS. O'DELL: And would sampling and testing -- would 23 a six-month sample for talc --23 **O** Is that -- is that based on --24 A Strike that. That is not a speculation. That is a Page 491 Page 493 <sup>1</sup> statement of fact. Let me ask you, is that a <sup>2</sup> MR. FROST: <sup>2</sup> representative way to test talc powder for 3 Move to strike nonresponsive answer. <sup>3</sup> asbestos? <sup>4</sup> MR. FROST: 4 MS. O'DELL: Is that based on your evaluation of the 5 Objection to form. <sup>6</sup> variability of the geology of the deposits in 6 A A six-month composite? <sup>7</sup> Vermont? <sup>7</sup> MS. O'DELL: 8 MR. FROST: 8 **Q** Yes. 9 Objection to form. 9 A Well, I wouldn't be happy with it. 10 **Q** 10 A Yes. And we already know there's 11 A <sup>11</sup> variation, and I just used arsenic as a good Because the sample that's actually run 12 example. Because if you look at the Hamm mine, <sup>12</sup> weighs less than a gram, and you're -- you're 13 that's the one mine that we have some good 13 trying to come up with a way to validate the fact <sup>14</sup> drilling numbers throughout the pit. Clearly 14 that that less than a gram of material is -- is 15 shows that there are areas of the mine that are <sup>15</sup> gonna be representative of perhaps a thousand 16 high arsenic, way out of spec --16 tons of ore, 2,000 tons. It's -- it's very hard 17 No. I'm sorry. It was the Rainbow <sup>17</sup> to imagine that you can show that it would be. 18 mine. 18 O Under any mathematical model, would 19 And then there are areas in the mine 19 that small of a sample that's tested be <sup>20</sup> that are great. <sup>20</sup> representative of tens of thousands of tons of

<sup>21</sup> ore?

23

24 A

22 MR. FROST:

Objection to form.

I think it would be probably

Uh-huh. And in your -- in your

You just mentioned the core logs. In

21 MS. O'DELL:

23 review --

22 **Q** 

24

Page 496 <sup>1</sup> I want to talk about that. Okay? <sup>1</sup> impossible. There's some things that you could <sup>2</sup> do to move it along toward the 2 A Sure. 3 **Q** <sup>3</sup> representativeness, but I don't think they were And remind me, which mine was that at? Okay. That one was Argonaut, that 4 done. 4 A <sup>5</sup> photograph was. But we've got some in the back <sup>5</sup> MS. O'DELL: 6 that are -- I think there's a Hamm mine picture 6 **Q** Are you -- are your opinions in this <sup>7</sup> case contained in your report that's dated <sup>7</sup> possibly in there. 8 January 22nd, 2019, as well as your deposition 8 O All right. So with regard to the <sup>9</sup> that you've given here today? <sup>9</sup> Argonaut mine and your conclusion that -- that <sup>10</sup> A <sup>10</sup> appropriate selective mining procedures were not Are they --11 **O** As well as the deposition? <sup>11</sup> being carried out, how many photographs did you <sup>12</sup> A No. What was the first part of the 12 look at? 13 question? 13 A I looked at everything we were given. 14 O Are your opinions in this case 14 And it's -- it's only a handful, not --Well, and does a handful mean five or 15 contained in your --15 O 16 A Oh, are they contained? Sure. Of 16 less? <sup>17</sup> course. 17 A It's probably more than five but less 18 **O** Let me finish. 18 than ten. 19 19 **Q** -- amended report that's dated January Okay. So -- so somewhere between five 20 22nd, 2019, as well as your deposition that <sup>20</sup> and ten photographs you looked at. Correct? Well, I also looked at Google Earth, <sup>21</sup> you've given here today? <sup>22</sup> A <sup>22</sup> which, you know, has its own, you know, set of Yes. <sup>23</sup> photographs that you can look at. 23 **O** All right. I have nothing further. 24 **O** <sup>24</sup> Thank you, Doctor. All right. And how many Google Earth Page 495 Page 497 <sup>1</sup> MR. FROST: <sup>1</sup> photographs did you look at? Well, it depends. You know, they have I'd just like two minutes. Actually, <sup>3</sup> no. You guys, why don't you guys stay here? I <sup>3</sup> a historical, you know, button you can push. And 4 think we'll be quick. I'll take Mr. Ferguson <sup>4</sup> I don't remember how many different dates there <sup>5</sup> outside. <sup>5</sup> were of the Ludlow area. But there were -- there 6 VIDEOGRAPHER: <sup>6</sup> were four or five. 7 7 **Q** Okay. So do you have copies of the --Going off the record. (OFF THE RECORD.) No. I didn't print them. 8 A VIDEOGRAPHER: 9 Q -- photographs? 10 A 10 We're back on the record. The time is I didn't save them. But, I mean, 11 they're easy to go back to and get. <sup>11</sup> 7:10 p.m. 12 **Q** 12 MR. FERGUSON: Okay. 13 13 A And I'd -- you know, I'd be more than I don't think Mr. --14 happy to tell you why I made the comment about 14 Oh, I'm sorry. <sup>15</sup> couldn't see the evidence of the selective I don't think Mr. Frost has any <sup>16</sup> questions. Right, Jack? <sup>16</sup> mining. 17 MR. FROST: 17 If you look at the photographs that 18 18 I --That's correct. 19 19 O I don't think -- I -- I don't have a **EXAMINATION** 20 BY MR. FERGUSON: 20 question on the table, but --21 **O** Okay. Just very briefly, Dr. Cook. 21 A Oh. I thought you did, but --22 So, with regarding to the -- the photographs that 22 **Q** I didn't. <sup>23</sup> you observed that had to do with the selective 23 A Okay.

24 **O** 

<sup>24</sup> mining issue you just discussed with Miss O'Dell,

So I'm trying to get the number of

Page 498 Page 500 <sup>1</sup> photographs. <sup>1</sup> It's mined out. 2 A Oh, okay. <sup>2</sup> MS. O'DELL: 3 **Q** So between five and ten photographs Objection to form. <sup>4</sup> that you were provided that you looked at. 4 MR. FERGUSON: 5 A Correct. 5 O Excuse me? Correct? 6 **Q** 6 A It's mined out. 7 A 7 **Q** Okay. Yes. And then some Google Earth 8 A And if you're looking at a 2018 8 O photographs -photograph, the material that was being mined in, 10 say, 1995, I mean, you're looking at a part of a 10 A Google Earth. -- that you -- you haven't shared with 11 hole in the ground. 11 O 12 us. Correct? Well, let's focus on the five to ten 13 A Correct. <sup>13</sup> photographs. Okay? 14 A 14 MS. O'DELL: Okay. Okay? Right? The five to ten 15 Object to the form. <sup>16</sup> MR. FERGUSON: <sup>16</sup> photographs you were provided of the Argonaut <sup>17</sup> O <sup>17</sup> mine --And when were the Google Earth 18 photographs taken? I mean, when --18 A Okay. They go back -- I think the most recent 19 O -- from which you concluded that selective mining procedures were not being <sup>20</sup> one was a two -- I think there might have been a 21 2018 photograph. And then they go back. It's an <sup>21</sup> applied properly. <sup>22</sup> irregular number of years that they -- that they 22 A Correct. 23 **Q** 23 present you with. But I think that maybe --Okay? 24 They had some that were so far back 24 MS. O'DELL: Page 499 Page 501 <sup>1</sup> that they were useless. The quality of the Object to the form. <sup>2</sup> photograph was no good. And, so, with that <sup>2</sup> MR. FERGUSON: <sup>3</sup> thought in mind, I'm gonna say there were 3 **Q** And what was the time frame for those <sup>4</sup> probably three or four of Ludlow area that were 4 photographs? <sup>5</sup> useful. 5 A I've got them in my report. And I can't tell you what the oldest 6 O Okay. <sup>7</sup> one was, but it would -- it would be, say, 2003, I don't remember the exact dates. But 8 they're -- each photograph I've -- I've tried to 8 maybe. Maybe -- maybe one that was pre-2000. 9 O But with regard to the photographs that <sup>9</sup> give a date on. Okay. So how long had that mine been 10 you looked at that were 2003 or post-2003, those 10 O 11 were when that mine was no longer being used to 11 being mined for purposes of cosmetic talc before 12 source cosmetic talc; correct? <sup>12</sup> 2003? Do you know? It's an old mine. It was originally an 13 MS. O'DELL: 14 <sup>14</sup> underground mine. And I think that probably as Object to the form. 15 A Yeah, that's right. And that's why I 15 long as the West Windsor mill had been in <sup>16</sup> said I'd be glad to, you know, discuss the ones <sup>16</sup> operation there had been some cosmetic talc in here, because they're pre-2003. <sup>17</sup> coming out of Argonaut. 18 MR. FERGUSON: 18 **Q** So it's been mined for years and years So -- so, essentially, the Google Earth <sup>19</sup> and years; correct? <sup>20</sup> photographs, which are perhaps all post-2003, <sup>20</sup> A I think so. 21 don't tell us anything about -- about what was 21 **Q** Okay. And the five to ten photographs 22 going on in the mine during the period of time 22 that you looked at, how long does it take to take <sup>23</sup> when it was being used to source talc? <sup>23</sup> a photograph? Something less than a second? 24 A No. That part of the mine is gone. 24 MS. O'DELL:

Filed 08/22/24 Page 128 of 130 Page 502 Page 504 1 Object to the form. 1 A Well, it might. But I'd say that the 2 A Yes. But --<sup>2</sup> odds are that in that -- in the hour preceding <sup>3</sup> MR. FERGUSON: <sup>3</sup> when the aerial photograph was taken, there 4 wouldn't have been a shot, because these Okay. So -- so those photographs were <sup>5</sup> showing you what the mine looked like during the <sup>5</sup> photographs were not taken by, you know, some <sup>6</sup> millisecond it took to take each of those 6 tourist flying over. These are aerial <sup>7</sup> photographs; correct? <sup>7</sup> photographs that were apparently taken by <sup>8</sup> Johnson & Johnson or probably Imerys personnel to 8 MS. O'DELL: <sup>9</sup> document the condition of the mine at that point. Object to the form. 10 A 10 It's very common to do this, because that's one Yeah. That's -- that's sort of a 11 loaded question, because what you see in the 11 of the ways that you can -- can measure your 12 photographs is the -- the result of mining over a 12 stockpiles is -- is by overflights. <sup>13</sup> period of time. Sure. 13 O Do you know who took them? 14 14 A You've got a photograph. I mean, No, I don't know who took them. It may <sup>15</sup> everybody knows it doesn't take very long to take <sup>15</sup> have said somewhere in the document. <sup>16</sup> a photograph. But if you're taking a photograph They came out of -- they came out of -of a mine that is -- that is full of shot rock 17 I think some of them actually came out of a 18 Luzenac document. <sup>18</sup> and waste rock and benches that are -- have been And you don't know, yourself, what 19 covered with -- with material that I wouldn't <sup>20</sup> think should be there if you were selectively 20 occurred, whether there had been a blast in the 21 previous hour, two hours? 21 mining a higher-grade deposit, then the -- the 22 little millisecond that it takes to take that No. What I was gonna say was if it was <sup>23</sup> photograph is capturing a condition that probably 23 gonna be a blast that day, I don't think I would <sup>24</sup> represents a number of years. <sup>24</sup> have been up in a plane over the quarry. Page 503 Page 505 But when you took the photo -- when you Okay. And have you talked to whoever 1 O 1 O <sup>2</sup> looked at the photographs, they represented only <sup>2</sup> took the plane to take the pictures? <sup>3</sup> a very, very short span of time in a -- in a mine <sup>3</sup> MS. O'DELL: 4 that's been mined for years and years and years; Object to the form. <sup>5</sup> correct? 5 A I have no idea who took the pictures. 6 MS. O'DELL: <sup>6</sup> MR. FERGUSON: 7 <sup>7</sup> Q Object to the form. That's all. Thank you, sir. That's what I'm saying is it may not 8 A Sure. <sup>9</sup> represent a short span of time. If you take a MS. O'DELL: 10 look at the photographs, it should be pretty 10 I have nothing further, Doctor. 11 obvious to you that the mines are not -- they're <sup>11</sup> MR. FROST: 12 not -- I wouldn't call them clean. There's an I have a real quick follow-up on those 13 awful lot of rock that is scattered about that --<sup>13</sup> questions. 14 that you wouldn't see if you were selectively 14 MS. O'DELL: 15 mining rock to make sure that you weren't getting I may have something further, but not <sup>16</sup> bad material mixed in with good. <sup>16</sup> after Mr. Ferguson. 17 <sup>17</sup> MR. FERGUSON: **EXAMINATION** 18

18 O And do you know what had been going on

19 immediately in the previous hour or so before the

<sup>20</sup> photograph was taken?

21 A It would look exactly like the

22 photograph. I mean, mining doesn't -- it

23 isn't -- unless they had shot off a blast.

24 O Okay. That happens, doesn't it? BY MR. FROST:

19 All right, sir. Look at page 8 of your

<sup>20</sup> report, that picture.

21 A Right.

<sup>22</sup> **O** So is the airplane parked on the

23 ground?

24 A No. The aerial photographs are in the

	Pageid: 238.	123	
	Page 506		Page 508
1	exhibit in the back.	1	CERTIFICATE
2	Q Okay. Let's turn to the exhibit in the	2	STATE OF ALABAMA)
3	back.	3	COUNTY OF MOBILE)
4		4	
		5	I do hereby certify that the above and
5	Q Would you agree with me that only two	6	foregoing transcript of proceedings in the matter
6	of these pictures actually appear to be aerial	7	aforementioned was taken down by me in machine
7	photos of the mine?	8	shorthand, and the questions and answers thereto
8	A Right. Sure.		were reduced to writing under my personal
9	Q Okay. The rest of the one, two, three,	1	• • • •
10	four, five		supervision, and that the foregoing represents a
	·	1	true and correct transcript of the proceedings
11	A They illustrate exactly what I was	1	given by said witness upon said hearing.
12	talking about.	13	I further certify that I am neither of
13	Q Well, again, my question is only two of		counsel nor of kin to the parties to the action,
14	the photographs are aerial; correct?	15	nor am I in anywise interested in the result of
15	A Sure.	16	said cause.
16	Q The other five appear to be taken from	17	Signed this 2nd day of February, 2019.
		18	
17	the ground?	19	
18	MS. O'DELL:	20	
19	Just count them. Don't agree if you		LOIS ANNE ROBINSON, RDR
20	don't	21	COURT REPORTER, NOTARY PUBLIC
21	A No.	21	STATE OF ALABAMA AT LARGE
22	MR. FROST:	22	
23			ACCR# 352; EXPIRES 9/30/19
	Q Well, you can count them, but it's	23	
24	five.	24	
-			
	Page 507		Page 509
1	Page 507	1	Page 509
١.	A But since you've pointed out that not	1 2	Page 509 ERRATA PAGE
2	A But since you've pointed out that not all of them were from the air, the last	2	ERRATA PAGE
3	A But since you've pointed out that not all of them were from the air, the last photograph was from the ground because the plane		ERRATA PAGE  I, ROBERT COOK, Ph.D., the witness
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2		
3	I, the undersigned, declare under penalty	
1		
4	of perjury that I have read the foregoing	
	transcript, and I have made any corrections,	
1		
6	additions, or deletions that I was desirous of	
7	making; that the foregoing is a true and correct	
8	transcript of my testimony contained herein.	
9	EXECUTED this day of,	
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	(City) (State)	
l	(Oil) (Build)	
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16	ROBERT COOK, Ph.D.	
1	RODERT COOK, FILD.	
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